

## DESCRIPTION

The Corelite R3 LED combines the internally developed Linear LED platform from Cooper Lighting with the high sense of style and superior brightness management that characterizes the CoreLite Class R family. The proprietary LED platform delivers a soft, diffuse volume of pure white light that carries the general character of a fluorescent source while simultaneously eliminating unsightly socket shadows and the hassle of luminaire maintenance. A guaranteed system life of 50,000 hrs combined with exceptional efficacy make the R3 LED the ultimate solution to satisfy the most stringent energy requirements with an ultra-light carbon footprint.

Catalog #		Type
Project		
Comments		Date
Prepared by		

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## SPECIFICATION FEATURES

### A ... Construction

Low profile housing constructed of die formed 20 gauge cold rolled steel with integral 20 gauge gear tray.

### B ... Reflector

Precision tooled, high reflectance sheet metal which allows for easy access to driver compartment from below ceiling plenum.

### C ... Shielding

High light transmission frosted prismatic acrylic lens with UV inhibitors minimizes lamp image and ensures efficient light distribution. Lenses secured to housing via injection molded inserts for easy lamp access.

### D ... Electrical

Fixture equipped with proprietary Cooper LED modules available in 3000, 3500 or 4000k with a CRI plus or minus 85. Removable module features aluminum extrusion providing exceptional thermal management. Modules are driven using universal voltage switch mode LED drivers. Fixture and modules certified to UL and CUL standards. A 0 to 10V dimming control is available (standard).

### E ... Finish

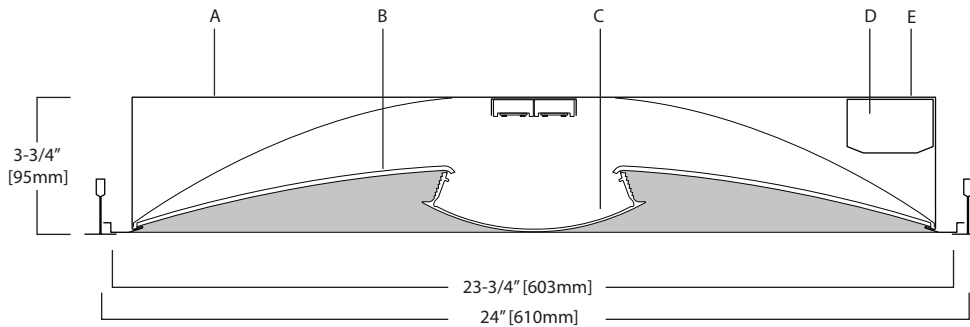
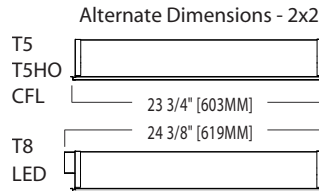
Fixture housings are high reflectance white using electrostatically applied polyester powder coat paint.

### Mounting

Standard flange design works with most lay in ceiling types. Integral pryout tabs secure luminaire to ceiling grid from above. Fixture offers tie in locations for tie wire on all corners, consult local code for appropriate tie wire recommendations.

### NOTE: Concealed Ceiling

Class R may be installed into inaccessible ceilings (sheet rock, wood panel, etc.). This is achieved with the Metalux DFW series drywall frame-in kit, ordered separately from Metalux. Specify CC for the Corelite Ceiling Type. Specify the following part numbers separately, from Metalux: For 2x2, order Metalux part DF-22W-U.



## CLASS R3 Linear Prismatic Lens

LED  
2'x2' Recessed  
3-3/4" Depth

DESIGNLIGHTS  
CONSORTIUM

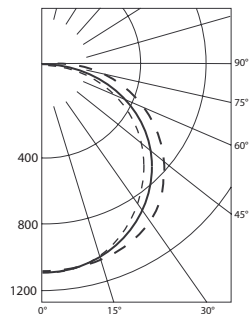
## ORDERING INFORMATION

Sample Number: R3-WL-1L30-1C-UNV-22-T1

<b>Series</b> R3: Class R3	<b>Shielding</b> L: Linear Prismatic Lens	<b>Color Temperature</b> L30: LED 3000K L35: LED 3500K L40: LED 4000K	<b>Wiring</b> <sup>1</sup> C: Standard Circuit D: Dimming E: Emergency T: Nightlight Y: Daylight	<b>Voltage</b> <sup>1</sup> 120: 120V 277: 277V 347: 347V UNV: Universal (120V-277V)	<b>Ceiling Type</b> T1: 1" Grid, Slot-Grid, 9/16" Tegular T9: 9/16" Grid CC: Concealed Ceiling	<b>Options</b> <sup>1</sup> AR: Air Return CP: Chicago Plenum NY: New York City Construction W6: 6' Whip Flex W12: 12' Whip Flex
<b>Reflector</b> W: White	<b>Light Level</b> 1: Light Level 1 2: Light Level 2	<b>Number of Circuits</b> 1: 1 Circuit		<b>Size</b> 22: 2' x 2'		

Notes: 1 Not all options available. Please consult your Cooper Lighting Representative for availability. Specifications and dimensions subject to change without notice.

DesignLights™ Consortium Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.



R3-WL-2L35-2x2  
3188 Lumens  
37.3 Watts  
85.5 LPW  
LED ALM 2.0

Test Report: #P22318

Coefficients of Utilization

rc	Effective floor cavity reflectance																							
	80%				70%				50%				30%				10%				0%			
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	100	100	100	100	100
1	108	103	98	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82	82	82	82	82	82	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68	68	68	68	68	68	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57	57	57	57	57	57	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48	48	48	48	48	48	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42	42	42	42	42	42	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36	36	36	36	36	36	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32	32	32	32	32	32	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29	29	29	29	29	29	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26	26	26	26	26	26	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23	23	23	23	23	23	23

Zonal Lumen Summary

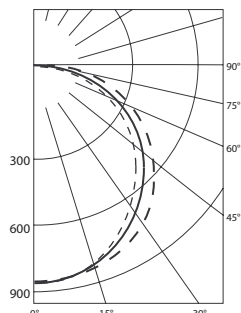
Zone	Lumens	% Lamp	% Fixture
0-30	841	N.A.	26.4
0-40	1371	N.A.	43
0-60	2431	N.A.	76.3
0-90	3188	N.A.	100
40-90	1816	N.A.	57
60-90	757	N.A.	23.7
90-180	0	N.A.	0
0-180	3188	N.A.	100

Luminance Data

Angle in Deg	0-Deg cd/sm	45-Deg cd/sm	90-Deg cd/sm
45	2626	2897	3193
55	2343	2852	3287
65	2061	2800	3451
75	1782	2823	3686
85	1578	2728	3419

Candela

Angle	0-Deg	23-Deg	45-Deg	68-Deg	90-Deg
0	1088	1088	1088	1088	1088
5	1086	1084	1083	1082	1082
10	1069	1068	1069	1068	1068
15	1040	1041	1044	1049	1052
20	999	1003	1008	1017	1020
25	943	949	963	975	981
30	878	887	907	928	937
35	807	818	848	877	889
40	732	743	783	825	842
45	648	664	715	769	788
50	557	580	646	705	726
55	469	499	571	635	658
60	384	414	492	561	587
65	304	336	413	483	509
70	229	261	334	400	425
75	161	189	255	313	333
80	100	122	176	210	209
85	48	60	83	99	104
90	0	0	0	0	0



R3-WL-1L35-2x2  
2496 Lumens  
28.1 Watts  
88.8 LPW  
LED ALM 2.0

Test Report: #P22357

Coefficients of Utilization

rc	Effective floor cavity reflectance																						
	80%				70%				50%				30%				10%				0%		
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																							
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100
1	108	103	98	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82	82	82	82	82	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68	68	68	68	68	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57	57	57	57	57	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48	48	48	48	48	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42	42	42	42	42	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36	36	36	36	36	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32	32	32	32	32	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29	29	29	29	29	29
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26	26	26	26	26	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23	23	23	23	23	23

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0-30	659	N.A.	26.4
0-40	1074	N.A.	43
0-60	1904	N.A.	76.3
0-90	2496	N.A.	100
40-90	1421	N.A.	57
60-90	592	N.A.	23.7
90-180	0	N.A.	0
0-180	2496	N.A.	100

Luminance Data

Angle in Deg	0-Deg cd/sm	45-Deg cd/sm	90-Deg cd/sm
45	2046	2269	2500
55	1833	2233	2572
65	1620	2190	2698
75	1384	2214	2878
85	1183	2137	2696

Candela

Angle	0-Deg	23-Deg	45-Deg	68-Deg	90-Deg
0	853	853	853	853	853
5	850	850	849	848	848
10	838	837	838	837	837
15	815	815	818	821	824
20	783	785	790	796	799
25	740	743	754	764	768
30	689	694	710	727	734
35	632	641	664	687	698
40	570	582	613	647	659
45	505	520	560	603	617
50	436	455	506	553	568
55	367	390	447	498	515
60	301	325	385	439	458
65	239	263	323	379	398
70	178	203	261	313	331
75	125	148	200	244	260
80	79	96	137	164	163
85	36	47	65	77	82
90	0	0	0	0	0