

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: CORELITE

Report Number: P219960

Luminaire Tested: **R3-WG-3L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35870)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WG-3L30-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

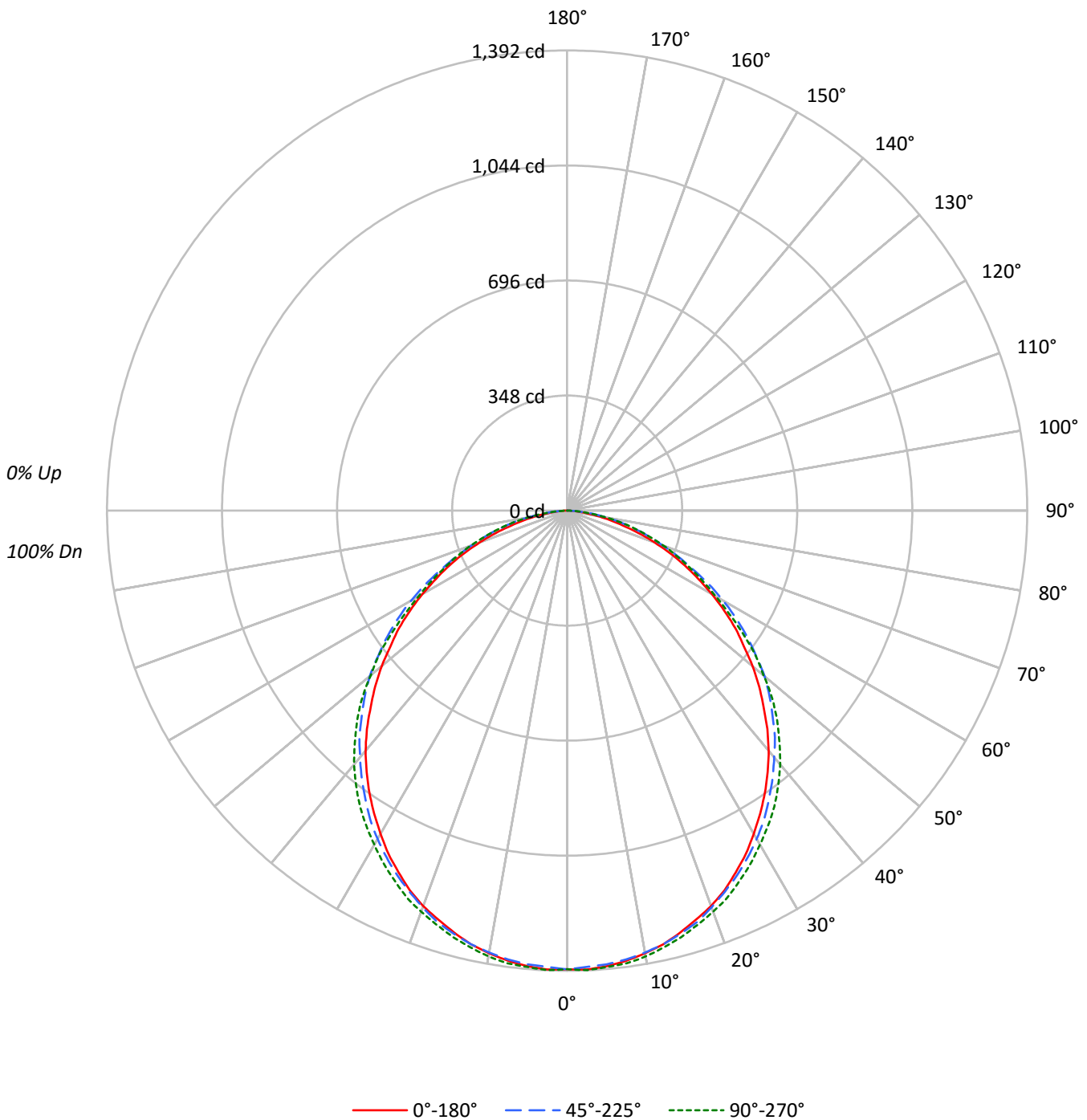
Lumens per Lamp: N/A
Luminaire Lumens: 3665.8 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3734	3734	3734
5°	3737	3721	3743
10°	3715	3709	3742
15°	3681	3692	3720
20°	3646	3658	3698
25°	3584	3614	3668
30°	3508	3564	3626
35°	3425	3498	3590
40°	3332	3423	3522
45°	3197	3342	3419
50°	3064	3265	3249
55°	2916	3114	3048
60°	2720	2935	2795
65°	2502	2669	2605
70°	2209	2414	2445
75°	1813	2189	2209
80°	1429	1864	1864
85°	991	1362	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	3.6
10°-20°	374.7	10.2
20°-30°	562.4	15.3
30°-40°	667.0	18.2
40°-50°	674.2	18.4
50°-60°	579.7	15.8
60°-70°	409.0	11.2
70°-80°	218.0	5.9
80°-90°	49.4	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1068.4	29.1
0°-40°	1735.5	47.3
0°-60°	2989.3	81.5
0°-90°	3665.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3665.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1384	1382	1378	1386	1386	131
15°	1321	1325	1325	1335	1335	373
25°	1207	1211	1217	1235	1235	556
35°	1043	1051	1065	1087	1093	652
45°	840	854	878	894	898	649
55°	622	640	664	662	650	554
65°	393	413	419	415	409	388
75°	174	198	210	219	212	190
85°	32	38	44	40	40	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.6	1387.6	1387.6	1387.6	1387.6
2.5°	1389.6	1387.6	1381.6	1389.6	1391.6
5°	1383.6	1381.6	1377.5	1385.6	1385.6
7.5°	1373.5	1373.5	1369.5	1379.6	1381.6
10°	1359.5	1359.5	1357.5	1367.5	1369.5
12.5°	1343.5	1345.5	1343.5	1353.5	1353.5
15°	1321.4	1325.4	1325.4	1335.4	1335.4
17.5°	1297.3	1301.4	1305.4	1313.4	1313.4
20°	1273.3	1273.3	1277.3	1289.3	1291.3
22.5°	1243.2	1245.2	1247.2	1263.3	1267.3
25°	1207.1	1211.1	1217.1	1235.2	1235.2
27.5°	1171.0	1177.0	1183.0	1201.1	1203.1
30°	1128.9	1134.9	1147.0	1163.0	1167.0
32.5°	1086.8	1092.8	1108.9	1124.9	1130.9
35°	1042.7	1050.7	1064.7	1086.8	1092.8
37.5°	996.6	1002.6	1020.6	1044.7	1048.7
40°	948.4	954.5	974.5	996.6	1002.6
42.5°	896.3	904.3	930.4	950.4	950.4
45°	840.2	854.2	878.3	894.3	898.3
47.5°	788.0	798.1	830.1	844.2	842.2
50°	731.9	745.9	780.0	784.0	776.0
52.5°	673.7	691.8	719.9	723.9	717.8
55°	621.6	639.6	663.7	661.7	649.7
57.5°	563.5	583.5	605.6	593.5	581.5
60°	505.3	525.4	545.4	527.4	519.3
62.5°	447.2	469.2	483.2	465.2	463.2
65°	393.0	413.1	419.1	415.1	409.1
67.5°	336.9	358.9	362.9	360.9	358.9
70°	280.7	304.8	306.8	310.8	310.8
72.5°	226.6	250.6	258.7	264.7	260.7
75°	174.4	198.5	210.5	218.6	212.5
77.5°	132.3	150.4	166.4	166.4	166.4
80°	92.2	108.3	120.3	122.3	120.3
82.5°	58.1	70.2	80.2	76.2	76.2
85°	32.1	38.1	44.1	40.1	40.1
87.5°	12.0	14.0	12.0	10.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)