

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: P219955

Luminaire Tested: **R3-WL-2L40-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35869)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WL-2L40-LD5-UNV-14  
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

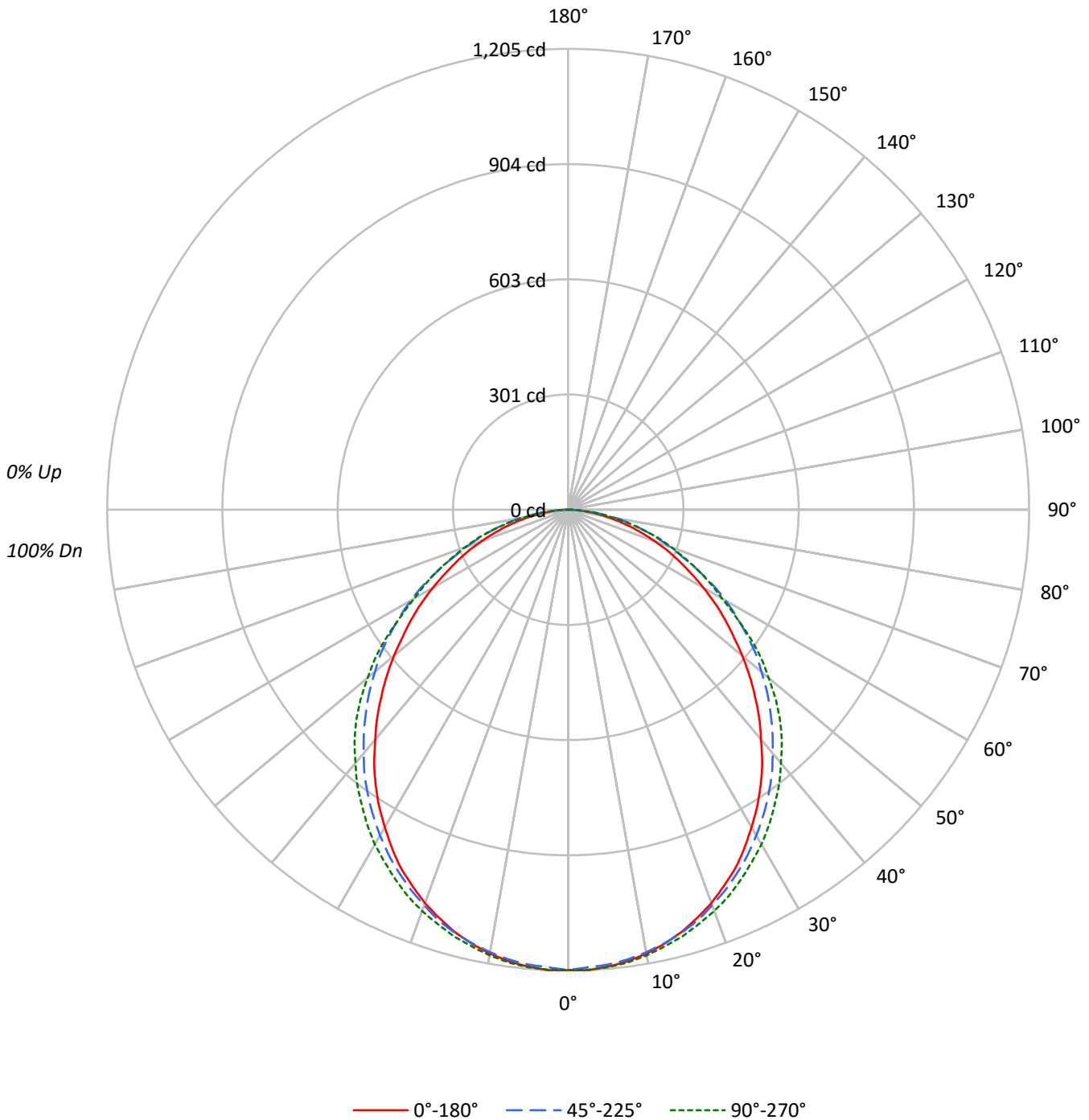
Lumens per Lamp: N/A  
Luminaire Lumens: 3179.9 lumens  
Efficiency: N/A  
Efficacy: 133.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.8  
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51					51			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44					44			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3239	3239	3239
5°	3239	3226	3243
10°	3220	3211	3233
15°	3186	3190	3217
20°	3134	3152	3198
25°	3071	3108	3170
30°	2978	3056	3140
35°	2883	2997	3091
40°	2754	2921	3038
45°	2628	2845	2984
50°	2487	2758	2864
55°	2348	2668	2712
60°	2199	2558	2498
65°	2047	2380	2390
70°	1895	2218	2256
75°	1712	2108	2108
80°	1497	1963	1841
85°	1272	1615	1417



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.8	3.6
10°-20°	323.8	10.2
20°-30°	483.7	15.2
30°-40°	569.9	17.9
40°-50°	572.6	18.0
50°-60°	495.4	15.6
60°-70°	358.3	11.3
70°-80°	206.0	6.5
80°-90°	56.5	1.8
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°	921.2	29.0
0°-40°	1491.1	46.9
0°-60°	2559.1	80.5
0°-90°	3179.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3179.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1199	1199	1194	1201	1201	114
15°	1144	1145	1145	1155	1155	322
25°	1034	1037	1047	1064	1068	475
35°	878	889	912	936	941	548
45°	691	711	748	778	784	533
55°	500	524	569	586	578	447
65°	322	344	374	375	375	319
75°	165	182	203	209	203	175
85°	41	49	52	49	46	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1203.8	1203.8	1203.8	1203.8	1203.8
2.5°	1205.3	1203.8	1197.4	1203.8	1203.8
5°	1199.0	1199.0	1194.2	1200.6	1200.6
7.5°	1191.1	1189.5	1186.3	1192.7	1194.2
10°	1178.4	1178.4	1175.2	1183.2	1183.2
12.5°	1162.6	1162.6	1161.0	1170.5	1168.9
15°	1143.6	1145.1	1145.1	1154.7	1154.7
17.5°	1119.8	1123.0	1126.1	1137.2	1135.6
20°	1094.5	1097.6	1100.8	1115.1	1116.6
22.5°	1064.4	1069.1	1075.5	1092.9	1094.5
25°	1034.3	1037.4	1046.9	1064.4	1067.5
27.5°	997.8	1004.2	1016.9	1037.4	1039.0
30°	958.3	969.3	983.6	1005.8	1010.5
32.5°	920.2	929.7	948.7	972.5	977.3
35°	877.5	888.6	912.3	936.1	940.8
37.5°	833.1	844.2	874.3	899.6	906.0
40°	784.0	799.9	831.5	860.0	864.8
42.5°	739.7	753.9	790.4	818.9	826.8
45°	690.6	711.2	747.6	777.7	784.0
47.5°	643.1	662.1	704.8	733.3	736.5
50°	594.0	617.7	658.9	687.4	684.2
52.5°	544.9	570.2	617.7	635.1	635.1
55°	500.5	524.3	568.6	586.0	578.1
57.5°	454.6	479.9	522.7	533.8	517.9
60°	408.6	432.4	475.2	473.6	464.1
62.5°	362.7	388.1	426.1	422.9	419.7
65°	321.5	343.7	373.8	375.4	375.4
67.5°	281.9	304.1	324.7	332.6	327.9
70°	240.8	262.9	281.9	289.9	286.7
72.5°	201.2	224.9	240.8	250.3	247.1
75°	164.7	182.1	202.7	209.1	202.7
77.5°	128.3	145.7	164.7	167.9	161.6
80°	96.6	110.9	126.7	123.5	118.8
82.5°	68.1	79.2	88.7	83.9	80.8
85°	41.2	49.1	52.3	49.1	45.9
87.5°	17.4	20.6	20.6	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)