

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: P383984

Luminaire Tested: **22ID-70-L840-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-70-L840-CFR2  
Description: 2X2 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

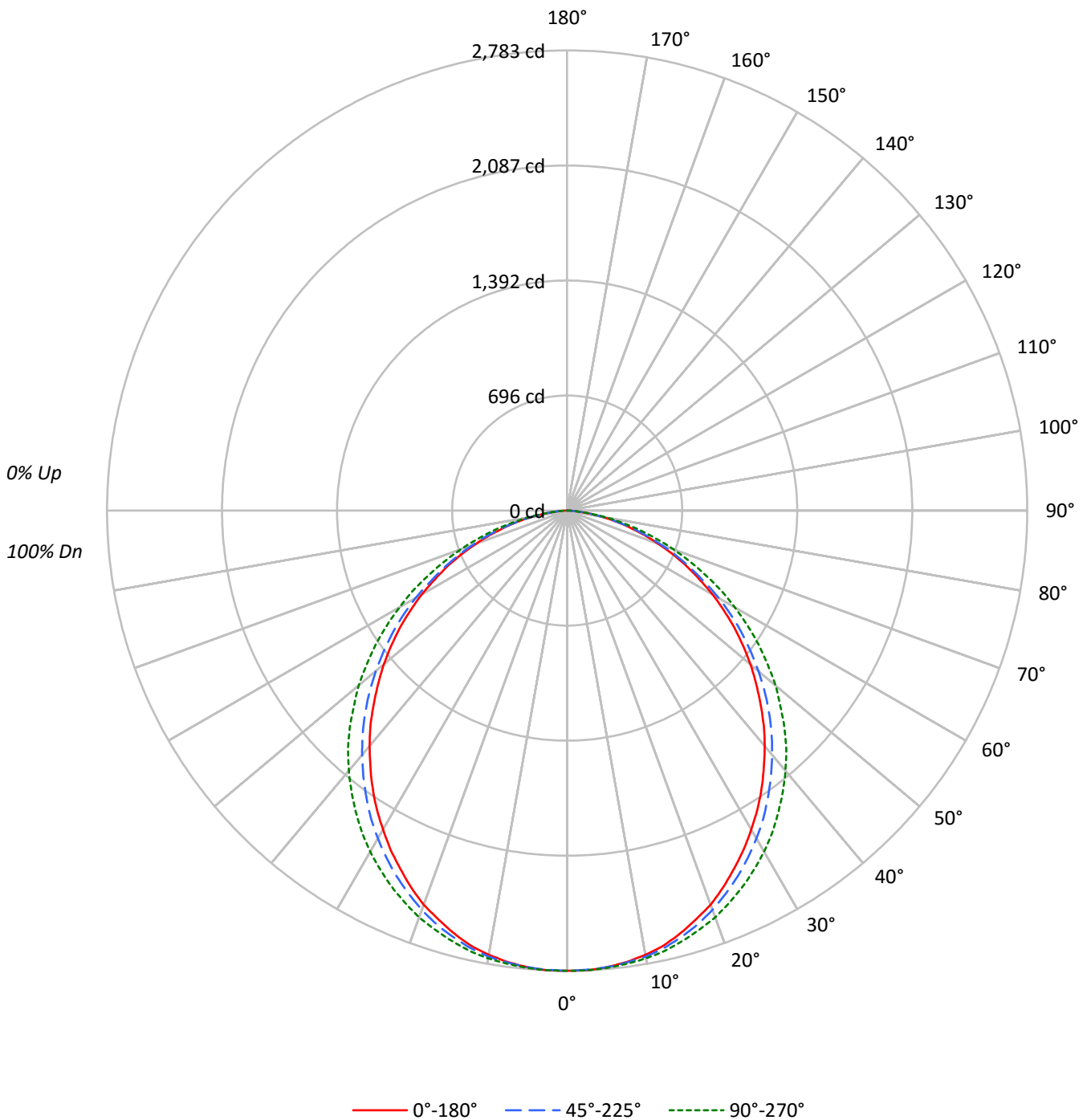
Lumens per Lamp: N/A  
Luminaire Lumens: 7347.0 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 61.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55		66	60	55		63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37	31	27	25

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

	0°	45°	90°
0°	7489	7489	7489
5°	7488	7488	7498
10°	7454	7484	7514
15°	7374	7436	7507
20°	7264	7359	7496
25°	7094	7247	7455
30°	6921	7115	7401
35°	6736	6954	7317
40°	6531	6777	7216
45°	6290	6571	7075
50°	6057	6319	6889
55°	5786	6045	6632
60°	5469	5706	6301
65°	5087	5251	5883
70°	4605	4779	5387
75°	4018	4172	4708
80°	3251	3309	3708
85°	1933	2158	1819



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.5	3.6
10°-20°	753.0	10.2
20°-30°	1126.5	15.3
30°-40°	1330.9	18.1
40°-50°	1343.0	18.3
50°-60°	1166.3	15.9
60°-70°	836.3	11.4
70°-80°	435.7	5.9
80°-90°	92.0	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°	2143.0	29.2
0°-40°	3473.9	47.3
0°-60°	5983.1	81.4
0°-90°	7347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7347.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2783	2783	2783	2783	2783	
5°	2772	2768	2772	2772	2776	263
15°	2647	2651	2669	2687	2695	746
25°	2389	2404	2441	2489	2511	1101
35°	2050	2065	2117	2194	2227	1282
45°	1653	1671	1727	1815	1859	1276
55°	1233	1244	1288	1373	1414	1101
65°	799	795	825	887	924	790
75°	386	383	401	431	453	412
85°	63	70	70	63	59	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2783.1	2783.1	2783.1	2783.1	2783.1
2.5°	2783.1	2779.5	2779.5	2779.5	2783.1
5°	2772.1	2768.4	2772.1	2772.1	2775.8
7.5°	2753.7	2750.0	2757.4	2761.1	2764.7
10°	2727.9	2727.9	2739.0	2746.3	2750.0
12.5°	2694.8	2694.8	2709.5	2720.6	2727.9
15°	2646.9	2650.6	2669.0	2687.4	2694.8
17.5°	2591.7	2602.8	2624.8	2650.6	2658.0
20°	2536.5	2543.8	2569.6	2602.8	2617.5
22.5°	2466.5	2477.6	2507.0	2551.2	2565.9
25°	2389.2	2404.0	2440.8	2488.6	2510.7
27.5°	2311.9	2323.0	2367.1	2422.4	2448.1
30°	2227.2	2242.0	2289.8	2352.4	2381.9
32.5°	2142.6	2153.6	2208.8	2275.1	2308.2
35°	2050.5	2065.3	2116.8	2194.1	2227.2
37.5°	1954.8	1973.2	2024.8	2105.8	2142.6
40°	1859.1	1870.2	1929.1	2010.0	2054.2
42.5°	1759.7	1774.4	1829.7	1918.0	1962.2
45°	1652.9	1671.4	1726.6	1814.9	1859.1
47.5°	1549.9	1568.3	1619.8	1708.2	1748.7
50°	1446.8	1457.8	1509.4	1597.7	1645.6
52.5°	1340.0	1351.1	1398.9	1483.6	1527.8
55°	1233.3	1244.3	1288.5	1373.2	1413.7
57.5°	1122.8	1130.2	1174.4	1251.7	1292.2
60°	1016.1	1019.7	1060.2	1130.2	1170.7
62.5°	901.9	905.6	935.1	1016.1	1052.9
65°	798.9	795.2	824.6	887.2	924.0
67.5°	692.1	692.1	717.9	773.1	802.5
70°	585.3	585.3	607.4	655.3	684.7
72.5°	485.9	485.9	504.4	541.2	563.3
75°	386.5	382.9	401.3	430.7	452.8
77.5°	294.5	294.5	301.9	327.6	342.4
80°	209.8	209.8	213.5	228.2	239.3
82.5°	132.5	132.5	132.5	139.9	143.6
85°	62.6	69.9	69.9	62.6	58.9
87.5°	29.5	29.5	25.8	25.8	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)