

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: P412302

Luminaire Tested: **14PD-35-PB1-L850**

Issue Date: 9/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412302  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-35-PB1-L850  
Description: 3500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

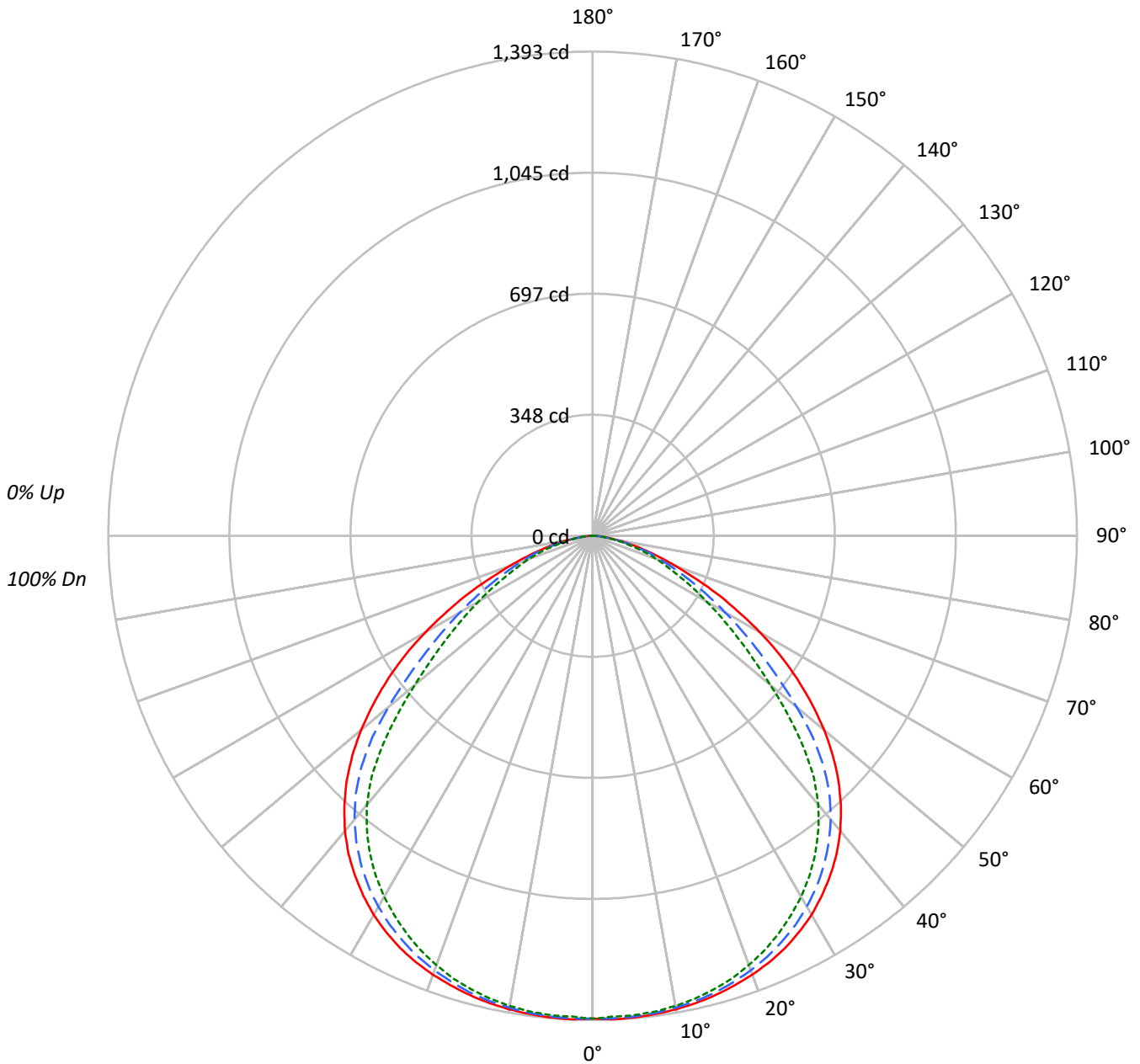
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3581.0 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 31.8  
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									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74																			
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63																			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33																			
9	59	46	38	32	57	45	37	32	44	37	32	43	37	32	42	36	32	30																			
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27																			

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

	0°	45°	90°
0°	3738	3738	3738
5°	3757	3749	3740
10°	3780	3767	3752
15°	3811	3791	3763
20°	3847	3810	3764
25°	3887	3825	3752
30°	3912	3829	3726
35°	3915	3808	3668
40°	3893	3743	3546
45°	3808	3580	3256
50°	3639	3206	2791
55°	3370	2749	2383
60°	2993	2360	2037
65°	2512	2013	1744
70°	1991	1711	1538
75°	1556	1396	1223
80°	1161	1040	939
85°	772	679	624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.1	3.7
10°-20°	383.9	10.7
20°-30°	592.8	16.6
30°-40°	721.5	20.1
40°-50°	714.0	19.9
50°-60°	537.9	15.0
60°-70°	323.2	9.0
70°-80°	145.7	4.1
80°-90°	29.8	0.8
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°	1108.8	31.0
0°-40°	1830.3	51.1
0°-60°	3082.2	86.1
0°-90°	3581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3581.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1391	1386	1388	1387	1384	133
15°	1368	1361	1361	1355	1351	387
25°	1309	1299	1288	1271	1264	603
35°	1192	1179	1159	1131	1116	745
45°	1001	983	941	883	856	769
55°	718	668	586	529	508	640
65°	394	358	316	283	274	392
75°	150	142	134	122	118	163
85°	25	26	22	21	20	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1389.2	1389.2	1389.2	1389.2	1389.2
2.5°	1392.8	1386.8	1389.8	1389.2	1384.5
5°	1391.0	1385.7	1388.0	1386.8	1384.5
7.5°	1388.0	1382.7	1384.5	1382.7	1380.3
10°	1383.3	1377.3	1378.5	1375.0	1373.2
12.5°	1376.7	1369.6	1370.8	1366.0	1363.7
15°	1367.8	1361.3	1360.7	1355.3	1350.6
17.5°	1356.5	1350.0	1346.4	1340.5	1335.1
20°	1343.5	1335.1	1330.4	1319.7	1314.3
22.5°	1328.0	1319.1	1311.4	1296.5	1291.2
25°	1309.0	1298.9	1288.2	1271.0	1263.8
27.5°	1285.8	1275.1	1262.7	1243.6	1232.9
30°	1259.1	1247.8	1232.3	1210.4	1199.1
32.5°	1227.6	1215.1	1198.5	1172.3	1160.5
35°	1191.9	1178.9	1159.3	1130.7	1116.5
37.5°	1153.3	1138.5	1115.3	1080.8	1066.6
40°	1108.2	1093.3	1065.4	1025.6	1009.5
42.5°	1057.1	1042.2	1008.3	960.8	941.2
45°	1000.6	983.4	940.6	883.0	855.6
47.5°	937.6	915.6	859.8	789.1	761.8
50°	869.3	840.2	765.9	693.4	666.7
52.5°	795.0	758.2	672.6	607.9	582.3
55°	718.4	667.9	585.9	528.8	508.0
57.5°	638.8	578.1	509.8	459.9	440.3
60°	556.2	497.3	438.5	392.8	378.5
62.5°	471.8	423.7	374.9	332.7	325.0
65°	394.5	357.7	316.1	282.8	273.9
67.5°	316.7	295.9	263.8	241.2	231.1
70°	253.1	239.5	217.5	199.1	195.5
72.5°	197.9	189.0	180.6	164.6	158.1
75°	149.7	142.0	134.3	121.8	117.6
77.5°	108.1	105.2	98.6	90.3	88.5
80°	74.9	74.9	67.1	62.4	60.6
82.5°	46.3	50.5	42.2	39.2	37.4
85°	25.0	25.6	22.0	20.8	20.2
87.5°	9.5	10.7	10.1	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)