

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: P385081

Luminaire Tested: **14ID-40-L850-CNC**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385081  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14ID-40-L850-CNC  
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

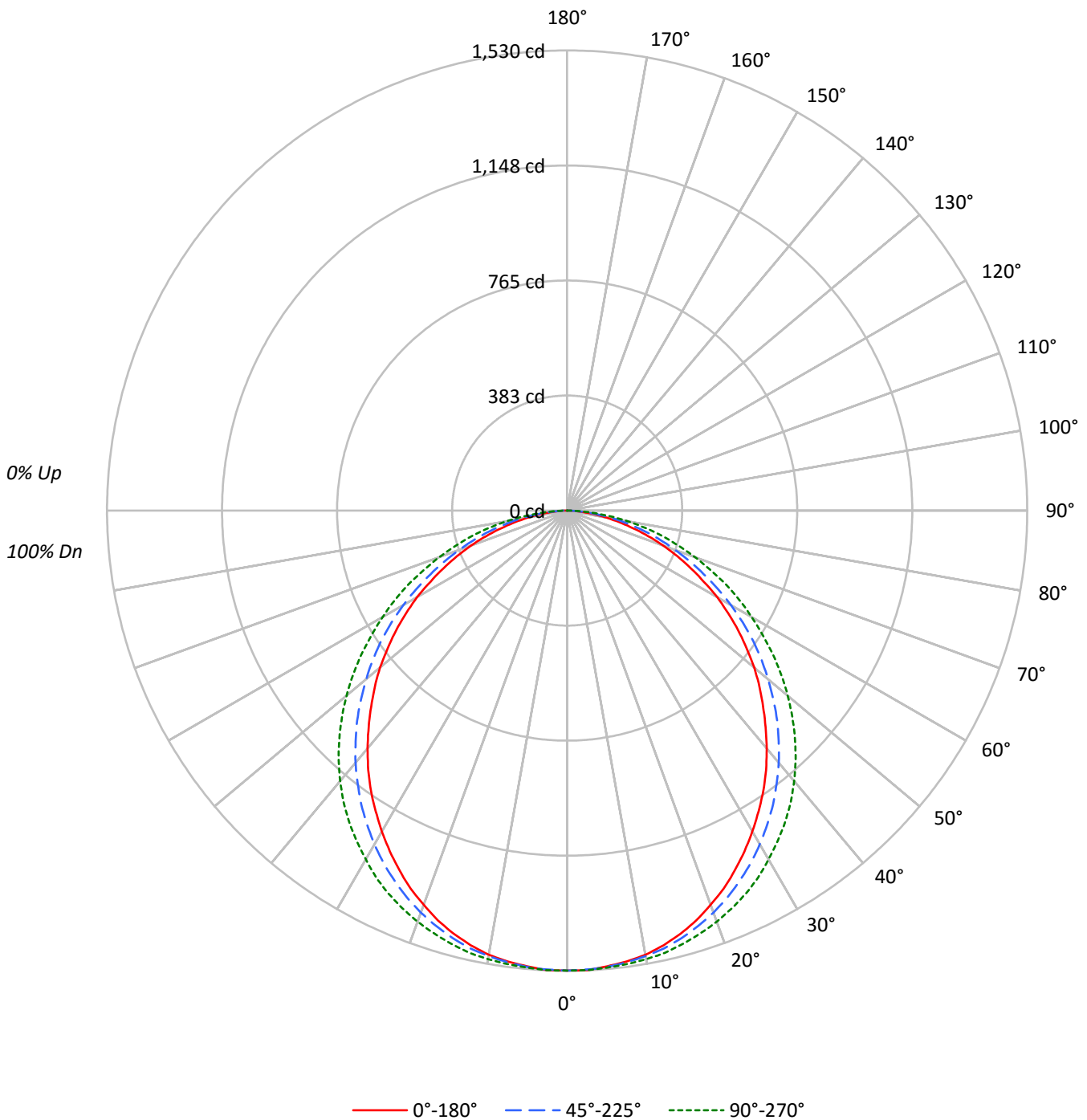
Lumens per Lamp: N/A  
Luminaire Lumens: 4247.0 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.4  
Input Voltage (V): NR  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

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

	0°	45°	90°
0°	4116	4116	4116
5°	4109	4115	4120
10°	4098	4109	4139
15°	4059	4100	4154
20°	3994	4074	4166
25°	3918	4033	4173
30°	3828	3981	4161
35°	3737	3920	4152
40°	3627	3845	4124
45°	3506	3758	4077
50°	3399	3650	4009
55°	3256	3538	3920
60°	3102	3390	3816
65°	2892	3192	3710
70°	2663	3000	3556
75°	2361	2784	3408
80°	1991	2490	3154
85°	1454	1917	2513



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	3.4
10°-20°	415.4	9.8
20°-30°	626.5	14.8
30°-40°	747.9	17.6
40°-50°	764.4	18.0
50°-60°	677.8	16.0
60°-70°	505.3	11.9
70°-80°	288.7	6.8
80°-90°	76.1	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°	1186.7	27.9
0°-40°	1934.6	45.6
0°-60°	3376.9	79.5
0°-90°	4247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4247.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1521	1521	1523	1523	1525	145
15°	1457	1461	1472	1485	1491	410
25°	1320	1330	1358	1388	1405	608
35°	1138	1153	1193	1240	1264	711
45°	921	940	988	1041	1071	712
55°	694	707	754	808	836	620
65°	454	465	501	553	583	450
75°	227	238	268	308	328	242
85°	47	49	62	77	81	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1529.6	1527.5	1527.5	1527.5	1529.6
5°	1521.1	1521.1	1523.2	1523.2	1525.3
7.5°	1512.5	1512.5	1514.6	1516.8	1521.1
10°	1499.6	1499.6	1503.9	1510.3	1514.6
12.5°	1480.3	1482.5	1491.1	1499.6	1506.1
15°	1456.8	1461.1	1471.8	1484.6	1491.1
17.5°	1428.9	1433.2	1448.2	1465.4	1473.9
20°	1394.7	1403.2	1422.5	1443.9	1454.6
22.5°	1360.4	1368.9	1392.5	1418.2	1431.1
25°	1319.7	1330.4	1358.2	1388.2	1405.4
27.5°	1276.8	1289.7	1321.8	1356.1	1375.4
30°	1231.8	1246.8	1281.1	1319.7	1339.0
32.5°	1184.7	1199.7	1238.3	1281.1	1302.5
35°	1137.6	1152.6	1193.3	1240.4	1264.0
37.5°	1086.2	1101.2	1144.0	1195.4	1221.1
40°	1032.6	1049.7	1094.7	1146.1	1174.0
42.5°	976.9	996.2	1041.2	1096.9	1124.7
45°	921.2	940.5	987.6	1041.2	1071.2
47.5°	867.6	882.6	929.8	985.5	1015.5
50°	811.9	824.8	871.9	927.6	957.6
52.5°	752.0	769.1	814.1	869.8	897.6
55°	694.1	707.0	754.1	807.7	835.5
57.5°	634.1	647.0	692.0	745.5	771.2
60°	576.3	589.1	629.8	683.4	709.1
62.5°	512.0	524.9	565.6	621.3	647.0
65°	454.2	464.9	501.3	552.7	582.7
67.5°	396.3	407.0	441.3	490.6	514.2
70°	338.5	347.1	381.3	426.3	452.0
72.5°	282.8	291.4	325.6	366.3	387.8
75°	227.1	237.8	267.8	308.5	327.8
77.5°	175.7	186.4	212.1	248.5	265.6
80°	128.5	137.1	160.7	188.5	203.5
82.5°	85.7	92.1	109.3	132.8	143.5
85°	47.1	49.3	62.1	77.1	81.4
87.5°	19.3	19.3	23.6	25.7	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)