

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: P385089

Luminaire Tested: **14ID-50-L850-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385089
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-50-L850-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

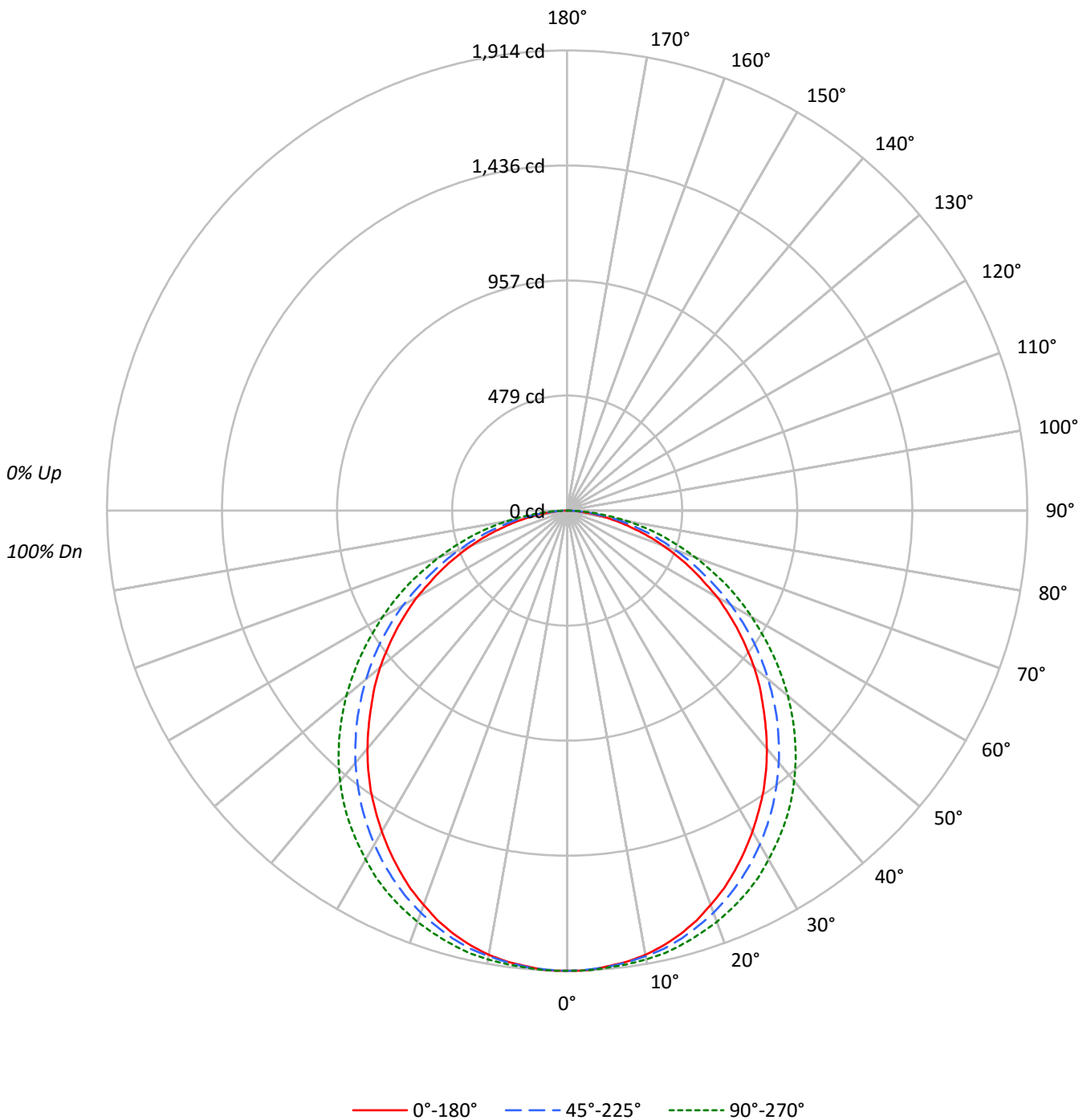
Lumens per Lamp: N/A
Luminaire Lumens: 5314.7 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.1
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°	5151	5151	5151
5°	5142	5149	5156
10°	5128	5143	5179
15°	5079	5131	5198
20°	4998	5098	5213
25°	4903	5047	5222
30°	4790	4982	5207
35°	4677	4906	5196
40°	4539	4812	5161
45°	4387	4703	5101
50°	4254	4568	5017
55°	4075	4427	4906
60°	3881	4242	4776
65°	3619	3994	4643
70°	3333	3755	4451
75°	2955	3484	4265
80°	2493	3116	3947
85°	1822	2399	3146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	3.4
10°-20°	519.8	9.8
20°-30°	784.0	14.8
30°-40°	936.0	17.6
40°-50°	956.6	18.0
50°-60°	848.2	16.0
60°-70°	632.3	11.9
70°-80°	361.2	6.8
80°-90°	95.3	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°	1485.0	27.9
0°-40°	2421.0	45.6
0°-60°	4225.8	79.5
0°-90°	5314.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5314.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1914	1914	1914	1914	1914	
5°	1903	1903	1906	1906	1909	181
15°	1823	1828	1842	1858	1866	514
25°	1651	1665	1700	1737	1759	760
35°	1424	1442	1493	1552	1582	889
45°	1153	1177	1236	1303	1340	891
55°	869	885	944	1011	1046	776
65°	568	582	627	692	729	563
75°	284	298	335	386	410	303
85°	59	62	78	96	102	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1914.2	1914.2	1914.2	1914.2	1914.2
2.5°	1914.2	1911.5	1911.5	1911.5	1914.2
5°	1903.4	1903.4	1906.1	1906.1	1908.8
7.5°	1892.7	1892.7	1895.4	1898.1	1903.4
10°	1876.6	1876.6	1882.0	1890.0	1895.4
12.5°	1852.5	1855.2	1865.9	1876.6	1884.7
15°	1823.0	1828.4	1841.8	1857.9	1865.9
17.5°	1788.2	1793.5	1812.3	1833.7	1844.5
20°	1745.3	1756.0	1780.1	1806.9	1820.3
22.5°	1702.4	1713.1	1742.6	1774.8	1790.8
25°	1651.4	1664.8	1699.7	1737.2	1758.7
27.5°	1597.8	1613.9	1654.1	1697.0	1721.1
30°	1541.5	1560.3	1603.2	1651.4	1675.6
32.5°	1482.5	1501.3	1549.6	1603.2	1630.0
35°	1423.6	1442.3	1493.3	1552.2	1581.7
37.5°	1359.2	1378.0	1431.6	1495.9	1528.1
40°	1292.2	1313.6	1369.9	1434.3	1469.1
42.5°	1222.5	1246.6	1302.9	1372.6	1407.5
45°	1152.8	1176.9	1235.9	1302.9	1340.5
47.5°	1085.8	1104.5	1163.5	1233.2	1270.8
50°	1016.1	1032.2	1091.1	1160.8	1198.4
52.5°	941.0	962.4	1018.7	1088.4	1123.3
55°	868.6	884.7	943.7	1010.7	1045.6
57.5°	793.5	809.6	865.9	933.0	965.1
60°	721.2	737.3	788.2	855.2	887.4
62.5°	640.7	656.8	707.8	777.5	809.6
65°	568.4	581.8	627.3	691.7	729.2
67.5°	496.0	509.4	552.3	613.9	643.4
70°	423.6	434.3	477.2	533.5	565.7
72.5°	353.9	364.6	407.5	458.4	485.2
75°	284.2	297.6	335.1	386.1	410.2
77.5°	219.8	233.2	265.4	311.0	332.4
80°	160.9	171.6	201.1	235.9	254.7
82.5°	107.2	115.3	136.7	166.2	179.6
85°	59.0	61.7	77.7	96.5	101.9
87.5°	24.1	24.1	29.5	32.2	34.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)