

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: P385193

Luminaire Tested: **24ID-45-L850-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385193
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: 24ID-45-L850-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

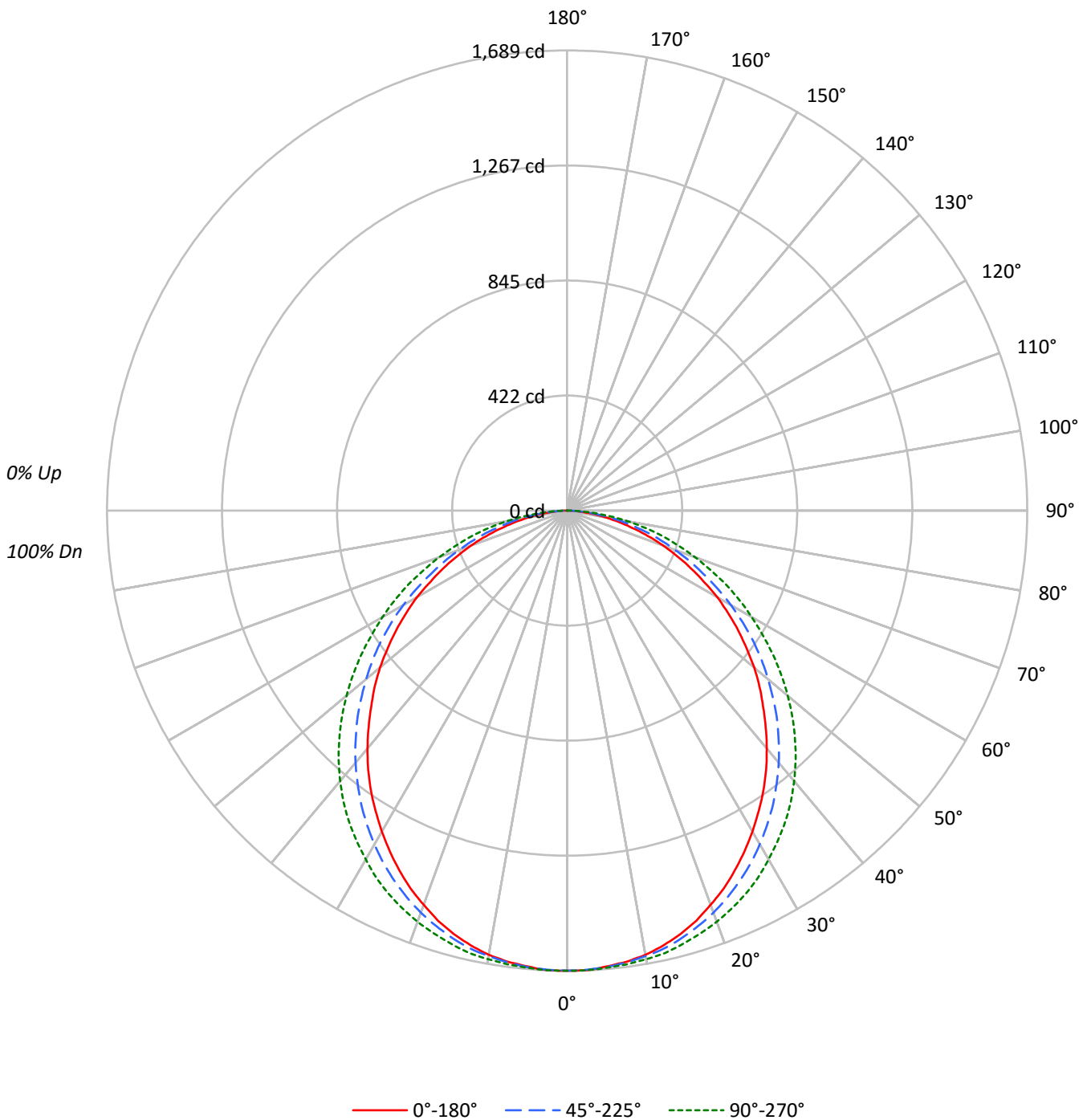
Lumens per Lamp: N/A
Luminaire Lumens: 4689.2 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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



TEST NUMBER: P385193
CATALOG NUMBER: 24ID-45-L850-CNC

Luminous Intensity Polar Plot





TEST NUMBER: P385193

CATALOG NUMBER: 24ID-45-L850-CNC

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°	2272	2272	2272
5°	2268	2271	2275
10°	2262	2269	2285
15°	2241	2264	2293
20°	2205	2249	2300
25°	2163	2226	2304
30°	2113	2198	2297
35°	2063	2164	2292
40°	2002	2123	2277
45°	1935	2075	2250
50°	1877	2015	2213
55°	1798	1953	2164
60°	1712	1871	2107
65°	1597	1762	2048
70°	1470	1656	1963
75°	1303	1537	1881
80°	1099	1375	1741
85°	803	1059	1388



TEST NUMBER: P385193

CATALOG NUMBER: 24ID-45-L850-CNC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	3.4
10°-20°	458.6	9.8
20°-30°	691.7	14.8
30°-40°	825.8	17.6
40°-50°	844.0	18.0
50°-60°	748.4	16.0
60°-70°	557.9	11.9
70°-80°	318.7	6.8
80°-90°	84.1	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°	1310.3	27.9
0°-40°	2136.1	45.6
0°-60°	3728.5	79.5
0°-90°	4689.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4689.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1689	1689	1689	1689	1689	
5°	1679	1679	1682	1682	1684	160
15°	1608	1613	1625	1639	1646	453
25°	1457	1469	1500	1533	1552	671
35°	1256	1273	1318	1370	1396	785
45°	1017	1038	1090	1150	1183	786
55°	766	781	833	892	922	685
65°	502	513	554	610	643	497
75°	251	263	296	341	362	267
85°	52	54	69	85	90	65
90°	0	0	0	0	0	



TEST NUMBER: P385193

CATALOG NUMBER: 24ID-45-L850-CNC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1688.9	1688.9	1688.9	1688.9	1688.9
2.5°	1688.9	1686.5	1686.5	1686.5	1688.9
5°	1679.4	1679.4	1681.8	1681.8	1684.2
7.5°	1670.0	1670.0	1672.3	1674.7	1679.4
10°	1655.8	1655.8	1660.5	1667.6	1672.3
12.5°	1634.5	1636.8	1646.3	1655.8	1662.9
15°	1608.5	1613.2	1625.0	1639.2	1646.3
17.5°	1577.7	1582.4	1599.0	1617.9	1627.4
20°	1539.9	1549.3	1570.6	1594.3	1606.1
22.5°	1502.0	1511.5	1537.5	1565.9	1580.1
25°	1457.1	1468.9	1499.7	1532.8	1551.7
27.5°	1409.8	1424.0	1459.4	1497.3	1518.6
30°	1360.1	1376.7	1414.5	1457.1	1478.4
32.5°	1308.1	1324.6	1367.2	1414.5	1438.2
35°	1256.0	1272.6	1317.5	1369.6	1395.6
37.5°	1199.3	1215.8	1263.1	1319.9	1348.3
40°	1140.1	1159.0	1208.7	1265.5	1296.2
42.5°	1078.6	1099.9	1149.6	1211.1	1241.8
45°	1017.1	1038.4	1090.4	1149.6	1182.7
47.5°	958.0	974.5	1026.6	1088.1	1121.2
50°	896.5	910.7	962.7	1024.2	1057.3
52.5°	830.3	849.2	898.8	960.3	991.1
55°	766.4	780.6	832.6	891.8	922.5
57.5°	700.2	714.3	764.0	823.2	851.5
60°	636.3	650.5	695.4	754.6	782.9
62.5°	565.3	579.5	624.5	686.0	714.3
65°	501.5	513.3	553.5	610.3	643.4
67.5°	437.6	449.4	487.3	541.7	567.7
70°	373.7	383.2	421.0	470.7	499.1
72.5°	312.2	321.7	359.5	404.5	428.1
75°	250.7	262.6	295.7	340.6	361.9
77.5°	194.0	205.8	234.2	274.4	293.3
80°	141.9	151.4	177.4	208.2	224.7
82.5°	94.6	101.7	120.6	146.7	158.5
85°	52.0	54.4	68.6	85.2	89.9
87.5°	21.3	21.3	26.0	28.4	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)