

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: P385190

Luminaire Tested: **24ID-45-L830-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385190
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-L830-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

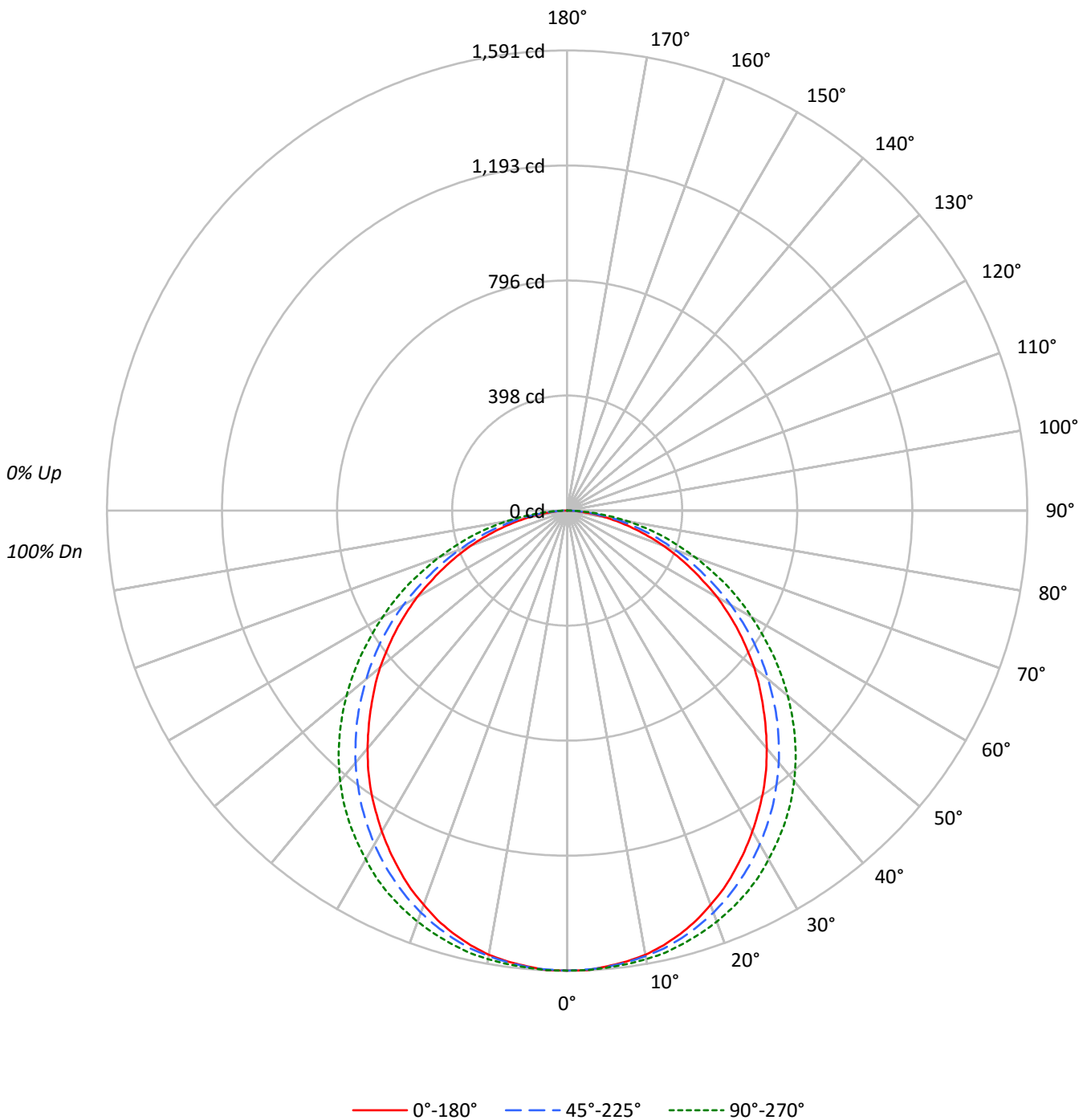
Lumens per Lamp: N/A
Luminaire Lumens: 4416.4 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40
Input Voltage (V): NR
Input Current (A_{in}): 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: P385190
CATALOG NUMBER: 24ID-45-L830-CNC

Luminous Intensity Polar Plot





TEST NUMBER: P385190

CATALOG NUMBER: 24ID-45-L830-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°	2140	2140	2140
5°	2136	2139	2142
10°	2131	2137	2152
15°	2110	2132	2160
20°	2077	2118	2166
25°	2037	2097	2170
30°	1990	2070	2163
35°	1943	2038	2159
40°	1886	1999	2144
45°	1823	1954	2120
50°	1767	1898	2084
55°	1693	1840	2038
60°	1613	1763	1984
65°	1504	1660	1929
70°	1385	1560	1849
75°	1227	1448	1772
80°	1036	1295	1640
85°	756	997	1308



TEST NUMBER: P385190

CATALOG NUMBER: 24ID-45-L830-CNC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	3.4
10°-20°	432.0	9.8
20°-30°	651.5	14.8
30°-40°	777.8	17.6
40°-50°	794.9	18.0
50°-60°	704.9	16.0
60°-70°	525.5	11.9
70°-80°	300.2	6.8
80°-90°	79.2	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°	1234.0	27.9
0°-40°	2011.8	45.6
0°-60°	3511.6	79.5
0°-90°	4416.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4416.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1582	1582	1584	1584	1586	150
15°	1515	1519	1530	1544	1550	427
25°	1372	1383	1412	1444	1461	632
35°	1183	1198	1241	1290	1314	739
45°	958	978	1027	1083	1114	740
55°	722	735	784	840	869	645
65°	472	483	521	575	606	468
75°	236	247	278	321	341	252
85°	49	51	65	80	85	61
90°	0	0	0	0	0	



TEST NUMBER: P385190

CATALOG NUMBER: 24ID-45-L830-CNC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1590.6	1590.6	1590.6	1590.6	1590.6
2.5°	1590.6	1588.4	1588.4	1588.4	1590.6
5°	1581.7	1581.7	1583.9	1583.9	1586.2
7.5°	1572.8	1572.8	1575.0	1577.3	1581.7
10°	1559.4	1559.4	1563.9	1570.6	1575.0
12.5°	1539.4	1541.6	1550.5	1559.4	1566.1
15°	1514.9	1519.3	1530.5	1543.8	1550.5
17.5°	1485.9	1490.4	1506.0	1523.8	1532.7
20°	1450.3	1459.2	1479.2	1501.5	1512.7
22.5°	1414.6	1423.5	1448.1	1474.8	1488.2
25°	1372.3	1383.4	1412.4	1443.6	1461.4
27.5°	1327.8	1341.1	1374.5	1410.2	1430.2
30°	1281.0	1296.6	1332.2	1372.3	1392.4
32.5°	1232.0	1247.6	1287.7	1332.2	1354.5
35°	1182.9	1198.5	1240.9	1289.9	1314.4
37.5°	1129.5	1145.1	1189.6	1243.1	1269.8
40°	1073.8	1091.6	1138.4	1191.9	1220.8
42.5°	1015.9	1035.9	1082.7	1140.6	1169.6
45°	957.9	978.0	1027.0	1082.7	1113.9
47.5°	902.2	917.8	966.9	1024.8	1056.0
50°	844.3	857.7	906.7	964.6	995.8
52.5°	781.9	799.8	846.6	904.5	933.4
55°	721.8	735.2	784.2	839.9	868.8
57.5°	659.4	672.8	719.6	775.3	802.0
60°	599.3	612.6	655.0	710.7	737.4
62.5°	532.4	545.8	588.1	646.1	672.8
65°	472.3	483.4	521.3	574.8	606.0
67.5°	412.1	423.3	458.9	510.2	534.7
70°	352.0	360.9	396.5	443.3	470.1
72.5°	294.1	303.0	338.6	380.9	403.2
75°	236.1	247.3	278.5	320.8	340.8
77.5°	182.7	193.8	220.5	258.4	276.2
80°	133.7	142.6	167.1	196.0	211.6
82.5°	89.1	95.8	113.6	138.1	149.3
85°	49.0	51.2	64.6	80.2	84.7
87.5°	20.0	20.0	24.5	26.7	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)