

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: P385192

Luminaire Tested: **24ID-45-L840-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385192
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-L840-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

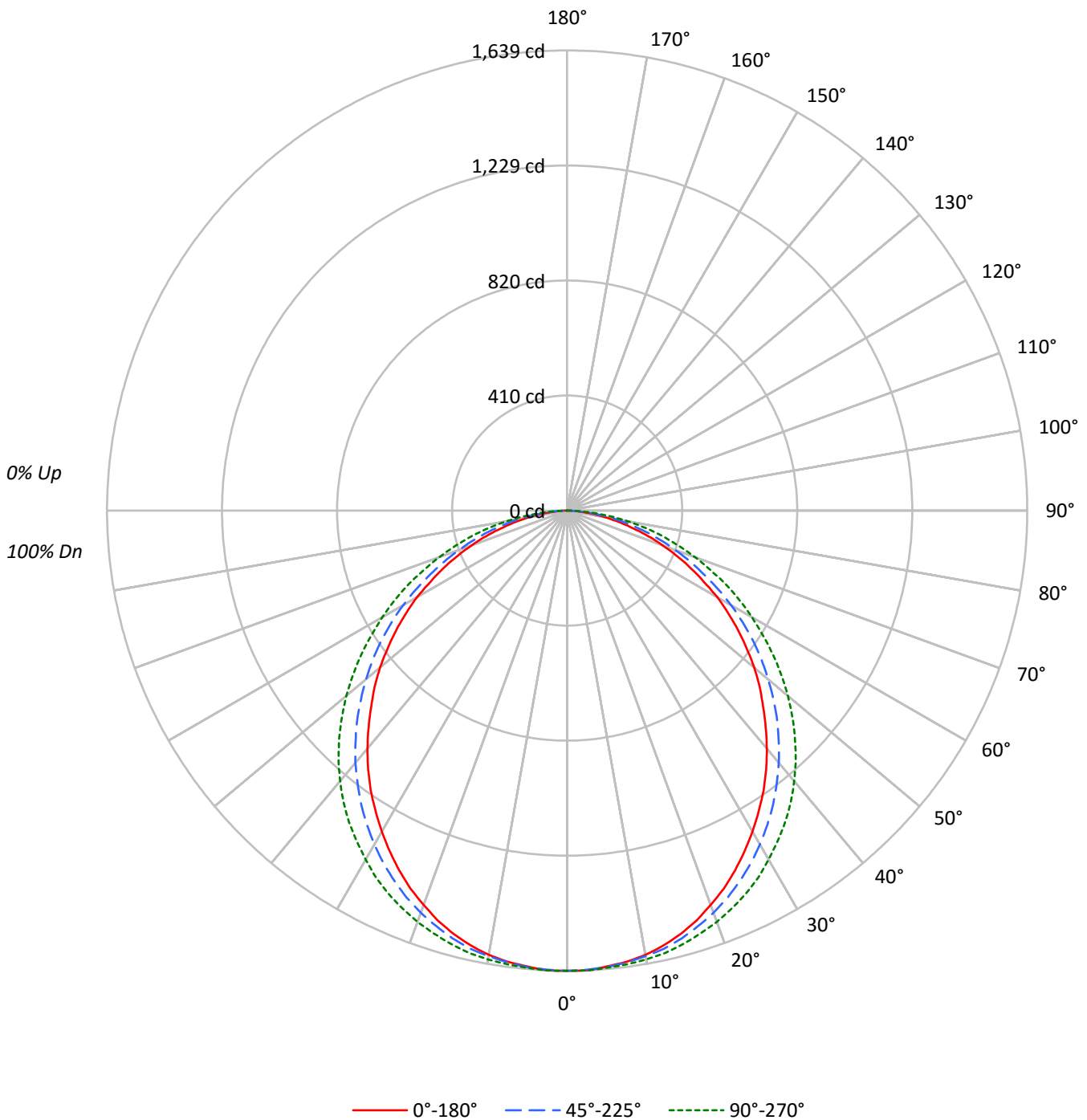
Lumens per Lamp: N/A
Luminaire Lumens: 4551.2 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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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°	2206	2206	2206
5°	2202	2205	2208
10°	2196	2202	2218
15°	2175	2197	2226
20°	2140	2183	2232
25°	2099	2161	2236
30°	2051	2133	2229
35°	2002	2100	2225
40°	1944	2060	2210
45°	1878	2014	2184
50°	1821	1956	2148
55°	1745	1896	2100
60°	1662	1816	2045
65°	1550	1710	1988
70°	1427	1607	1906
75°	1265	1492	1826
80°	1067	1334	1690
85°	780	1028	1346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	3.4
10°-20°	445.1	9.8
20°-30°	671.4	14.8
30°-40°	801.5	17.6
40°-50°	819.2	18.0
50°-60°	726.4	16.0
60°-70°	541.5	11.9
70°-80°	309.3	6.8
80°-90°	81.6	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°	1271.7	27.9
0°-40°	2073.2	45.6
0°-60°	3618.8	79.5
0°-90°	4551.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4551.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1639	1639	1639	1639	1639	
5°	1630	1630	1632	1632	1635	155
15°	1561	1566	1577	1591	1598	440
25°	1414	1426	1456	1488	1506	651
35°	1219	1235	1279	1329	1354	762
45°	987	1008	1058	1116	1148	763
55°	744	758	808	866	895	665
65°	487	498	537	592	624	482
75°	243	255	287	331	351	260
85°	50	53	67	83	87	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1639.2	1639.2	1639.2	1639.2	1639.2
2.5°	1639.2	1636.9	1636.9	1636.9	1639.2
5°	1630.0	1630.0	1632.3	1632.3	1634.6
7.5°	1620.8	1620.8	1623.1	1625.4	1630.0
10°	1607.0	1607.0	1611.6	1618.5	1623.1
12.5°	1586.4	1588.7	1597.9	1607.0	1613.9
15°	1561.1	1565.7	1577.2	1591.0	1597.9
17.5°	1531.3	1535.9	1551.9	1570.3	1579.5
20°	1494.5	1503.7	1524.4	1547.4	1558.8
22.5°	1457.8	1467.0	1492.3	1519.8	1533.6
25°	1414.2	1425.7	1455.5	1487.7	1506.0
27.5°	1368.3	1382.1	1416.5	1453.2	1473.9
30°	1320.1	1336.1	1372.9	1414.2	1434.9
32.5°	1269.6	1285.6	1327.0	1372.9	1395.8
35°	1219.1	1235.1	1278.7	1329.3	1354.5
37.5°	1164.0	1180.0	1225.9	1281.0	1308.6
40°	1106.6	1124.9	1173.1	1228.2	1258.1
42.5°	1046.9	1067.5	1115.7	1175.4	1205.3
45°	987.2	1007.8	1058.4	1115.7	1147.9
47.5°	929.8	945.9	996.4	1056.1	1088.2
50°	870.1	883.9	934.4	994.1	1026.2
52.5°	805.8	824.2	872.4	932.1	961.9
55°	743.8	757.6	808.1	865.5	895.4
57.5°	679.5	693.3	741.5	798.9	826.5
60°	617.6	631.3	675.0	732.4	759.9
62.5°	548.7	562.5	606.1	665.8	693.3
65°	486.7	498.2	537.2	592.3	624.5
67.5°	424.7	436.2	472.9	525.7	551.0
70°	362.7	371.9	408.6	456.9	484.4
72.5°	303.0	312.2	349.0	392.6	415.5
75°	243.4	254.8	287.0	330.6	351.3
77.5°	188.3	199.7	227.3	266.3	284.7
80°	137.7	146.9	172.2	202.0	218.1
82.5°	91.8	98.7	117.1	142.3	153.8
85°	50.5	52.8	66.6	82.6	87.2
87.5°	20.7	20.7	25.3	27.5	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)