

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: P384674

Luminaire Tested: **24ID-30-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-30-L830-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

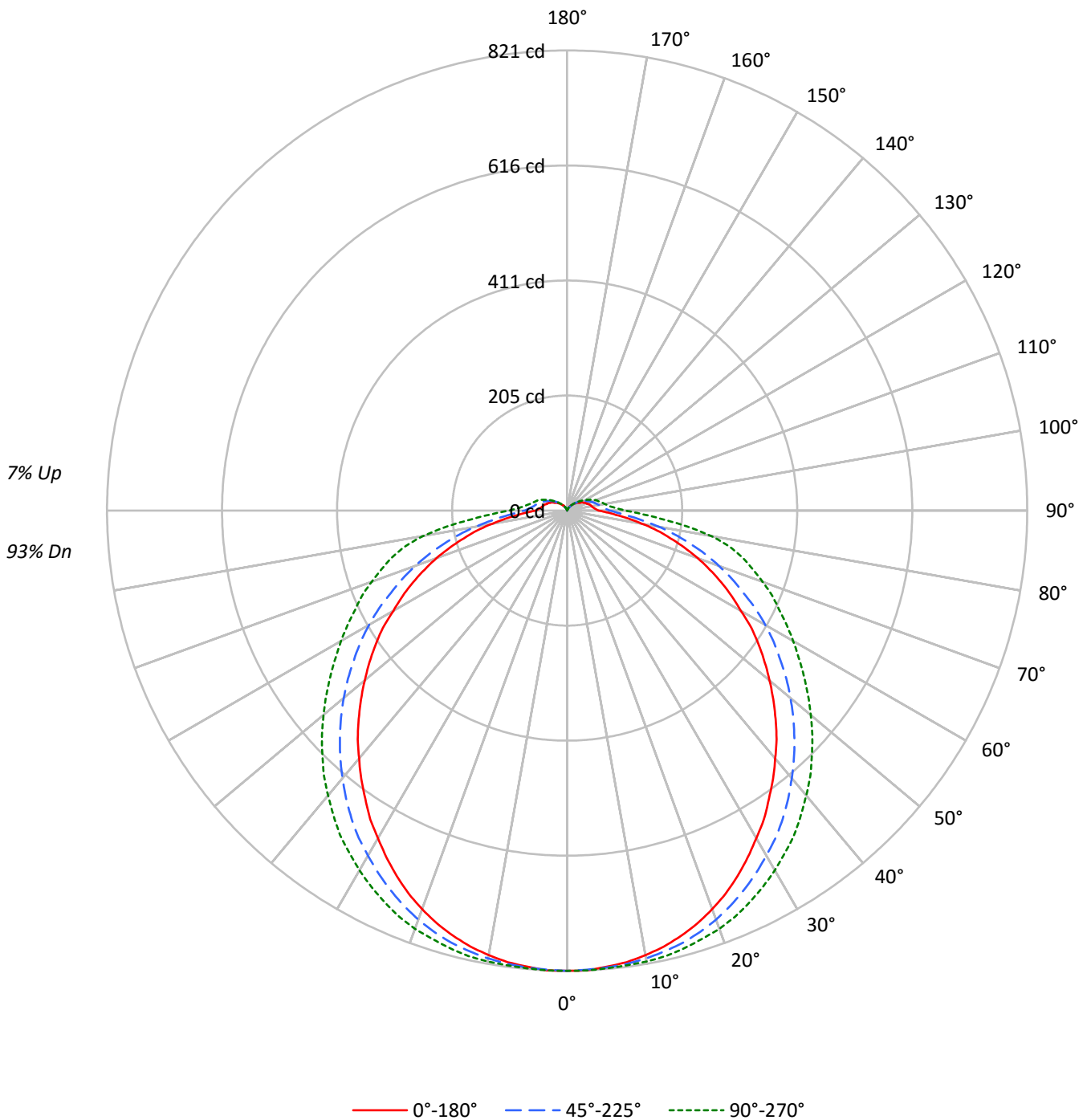
Lumens per Lamp: N/A
Luminaire Lumens: 2873.7 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 25.8
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



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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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93				
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74				
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60				
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50				
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42				
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36				
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32				
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28				
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25				
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22				
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1105	1105	1105
5°	1097	1093	1095
10°	1088	1083	1092
15°	1076	1074	1089
20°	1059	1061	1087
25°	1038	1044	1082
30°	1012	1026	1074
35°	988	1008	1067
40°	964	985	1055
45°	942	963	1045
50°	919	940	1034
55°	898	916	1027
60°	870	894	1030
65°	853	860	1047
70°	832	831	1087
75°	803	787	1148
80°	779	735	1182
85°	787	678	1066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	2.7
10°-20°	225.0	7.8
20°-30°	343.8	12.0
30°-40°	418.5	14.6
40°-50°	442.3	15.4
50°-60°	417.5	14.5
60°-70°	351.3	12.2
70°-80°	253.2	8.8
80°-90°	133.6	4.6
90°-100°	71.5	2.5
100°-110°	54.3	1.9
110°-120°	39.4	1.4
120°-130°	24.7	0.9
130°-140°	13.4	0.5
140°-150°	5.8	0.2
150°-160°	1.6	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	646.6	22.5
0°-40°	1065.1	37.1
0°-60°	1924.9	67.0
0°-90°	2663.0	92.7
90°-120°	165.2	5.7
90°-150°	209.1	7.3
90°-180°	211.0	7.3
0°-180°	2873.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	817	817	818	818	820	78
15°	785	788	798	804	808	222
25°	719	728	747	764	771	331
35°	628	642	671	696	706	393
45°	526	542	573	605	618	406
55°	417	436	464	499	516	373
65°	304	321	347	390	417	300
75°	191	206	226	271	324	202
85°	87	99	110	138	168	82
90°	56	66	76	90	103	32
95°	49	56	64	73	79	39
105°	42	46	52	57	60	43
115°	33	36	40	43	46	33
125°	24	24	29	29	30	22
135°	17	16	17	17	19	13
145°	10	9	9	9	10	6
155°	4	4	1	3	4	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	821.2	821.2	821.2	821.2	821.2
2.5°	821.2	819.8	819.8	819.8	821.2
5°	816.9	816.9	818.3	818.3	819.8
7.5°	812.6	812.6	815.5	816.9	818.3
10°	805.4	806.9	811.2	814.0	816.9
12.5°	796.8	798.3	805.4	811.2	814.0
15°	785.4	788.2	798.3	804.0	808.3
17.5°	772.5	776.8	788.2	796.8	801.1
20°	756.7	762.4	776.8	788.2	794.0
22.5°	739.5	745.2	762.4	776.8	783.9
25°	719.4	728.0	746.7	763.9	771.0
27.5°	697.9	708.0	729.5	749.5	756.7
30°	675.0	686.5	710.8	732.3	740.9
32.5°	653.5	665.0	692.2	715.1	723.7
35°	627.7	642.1	670.7	696.5	706.5
37.5°	603.4	617.7	647.8	675.0	685.1
40°	577.6	591.9	623.4	653.5	663.6
42.5°	553.2	567.5	599.1	630.6	642.1
45°	526.0	541.7	573.3	604.8	617.7
47.5°	498.7	514.5	547.5	580.4	593.3
50°	471.5	488.7	520.2	553.2	567.5
52.5°	444.3	461.5	493.0	527.4	541.7
55°	417.1	435.7	464.3	498.7	515.9
57.5°	389.8	408.5	437.1	472.9	490.1
60°	358.3	379.8	408.5	445.7	465.8
62.5°	331.1	349.7	378.4	417.1	441.4
65°	303.8	321.0	346.8	389.8	417.1
67.5°	275.2	293.8	318.2	358.3	395.6
70°	247.9	263.7	288.1	329.6	371.2
72.5°	219.3	235.0	258.0	301.0	346.8
75°	190.6	206.4	226.4	270.9	323.9
77.5°	164.8	177.7	196.3	239.3	296.7
80°	136.2	149.0	166.2	204.9	260.8
82.5°	110.4	121.8	136.2	170.5	215.0
85°	87.4	98.9	110.4	137.6	167.7
87.5°	70.2	78.8	90.3	110.4	130.4
90°	55.9	65.9	76.0	90.3	103.2
92.5°	51.6	60.2	68.8	80.3	88.9
95°	48.7	55.9	64.5	73.1	78.8
97.5°	45.9	53.0	60.2	68.8	73.1
100°	44.4	50.2	57.3	64.5	67.4
102.5°	43.0	47.3	54.5	60.2	64.5
105°	41.6	45.9	51.6	57.3	60.2
107.5°	38.7	43.0	48.7	54.5	57.3
110°	37.3	40.1	45.9	50.2	54.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	35.8	38.7	43.0	47.3	50.2
115°	33.0	35.8	40.1	43.0	45.9
117.5°	31.5	33.0	37.3	38.7	41.6
120°	28.7	30.1	34.4	35.8	37.3
122.5°	25.8	27.2	31.5	31.5	34.4
125°	24.4	24.4	28.7	28.7	30.1
127.5°	22.9	22.9	25.8	25.8	27.2
130°	20.1	20.1	22.9	22.9	22.9
132.5°	18.6	17.2	20.1	20.1	21.5
135°	17.2	15.8	17.2	17.2	18.6
137.5°	14.3	14.3	15.8	14.3	15.8
140°	12.9	11.5	12.9	12.9	14.3
142.5°	11.5	10.0	11.5	10.0	11.5
145°	10.0	8.6	8.6	8.6	10.0
147.5°	8.6	7.2	7.2	7.2	8.6
150°	7.2	5.7	5.7	5.7	7.2
152.5°	5.7	4.3	2.9	4.3	5.7
155°	4.3	4.3	1.4	2.9	4.3
157.5°	2.9	2.9	0.0	1.4	2.9
160°	1.4	1.4	0.0	1.4	1.4
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)