

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: P256963

Luminaire Tested: **HGL-S-BF-40L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BF-40L830-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6522.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

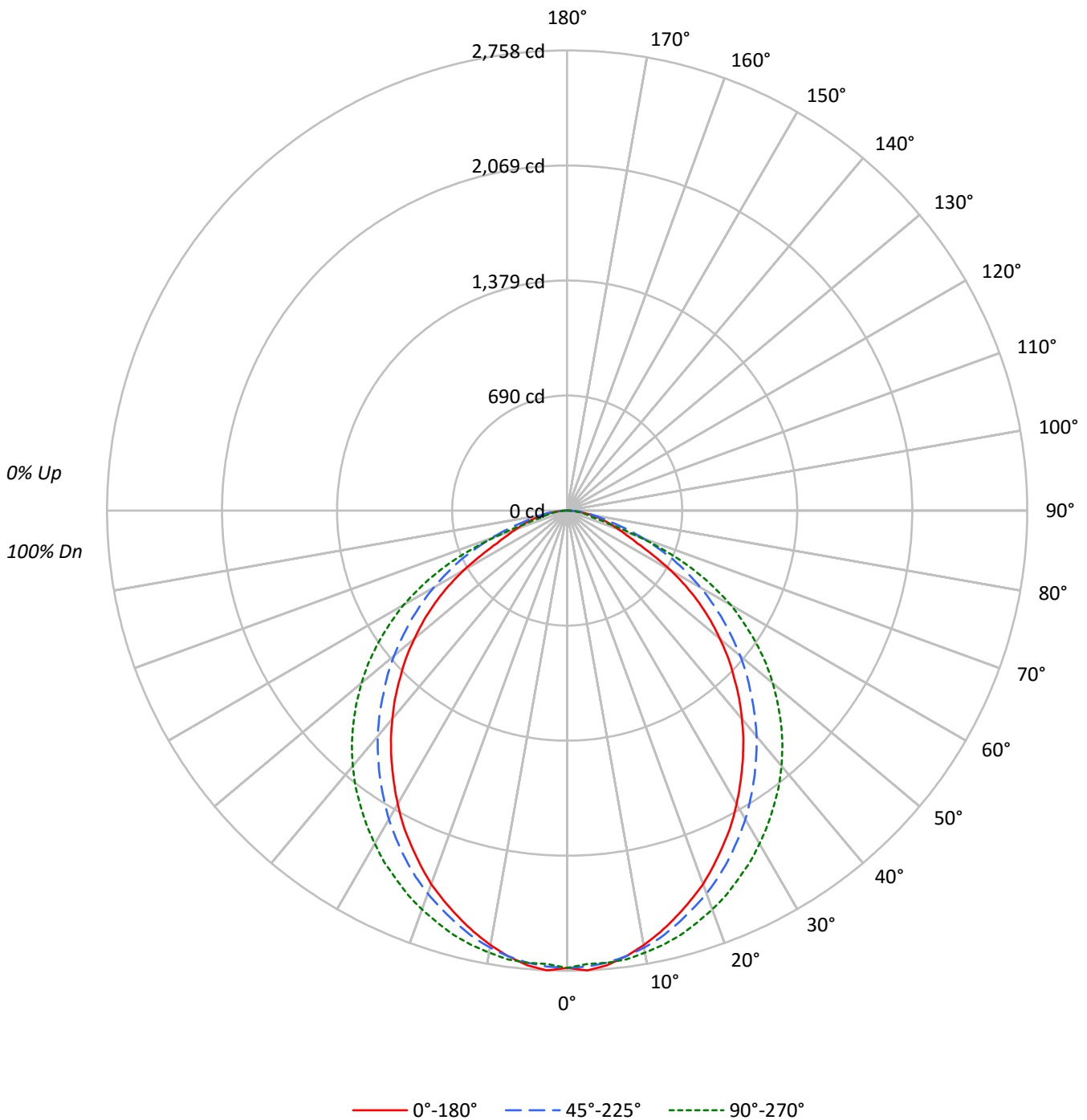
Input Watts (W): 58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16092	16092	16092
5°	16121	15989	15973
10°	15764	15770	15916
15°	15318	15438	15814
20°	14877	15088	15645
25°	14327	14674	15445
30°	13759	14227	15251
35°	13133	13709	15021
40°	12474	13182	14773
45°	11731	12543	14430
50°	10897	11917	13971
55°	9886	11155	13314
60°	8406	10290	12355
65°	6440	9200	10590
70°	5575	7658	6853
75°	5132	5687	3203
80°	4579	4559	2737
85°	3859	3871	2045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.6	3.9
10°-20°	722.3	11.1
20°-30°	1059.5	16.2
30°-40°	1228.7	18.8
40°-50°	1216.5	18.7
50°-60°	1026.5	15.7
60°-70°	665.3	10.2
70°-80°	269.1	4.1
80°-90°	74.7	1.1
90°-100°	1.7	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°	2039.5	31.3
0°-40°	3268.2	50.1
0°-60°	5511.2	84.5
0°-90°	6520.3	100.0
90°-120°	1.7	0.0
90°-150°	1.7	0.0
90°-180°	2.0	0.0
0°-180°	6522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2741	2741	2741	2741	2741	
5°	2736	2708	2720	2718	2720	258
15°	2521	2508	2561	2607	2632	710
25°	2213	2213	2299	2369	2433	1019
35°	1834	1846	1955	2059	2160	1147
45°	1415	1445	1559	1690	1814	1092
55°	968	1018	1139	1273	1382	860
65°	465	538	707	793	834	482
75°	227	237	280	230	164	241
85°	58	68	78	63	46	64
90°	0	10	18	13	0	3
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P256963

CATALOG NUMBER: HGL-S-BF-40L830-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2740.8	2740.8	2740.8	2740.8	2740.8
2.5°	2758.4	2728.1	2735.7	2730.7	2720.5
5°	2735.7	2707.9	2720.5	2718.0	2720.5
7.5°	2695.3	2672.6	2695.3	2702.9	2713.0
10°	2644.8	2627.1	2659.9	2677.6	2690.2
12.5°	2586.7	2571.5	2617.0	2644.8	2665.0
15°	2521.0	2508.4	2561.4	2606.9	2632.1
17.5°	2452.8	2442.7	2503.3	2561.4	2589.2
20°	2382.1	2372.0	2442.7	2500.8	2543.7
22.5°	2298.7	2293.6	2374.5	2435.1	2493.2
25°	2212.8	2212.8	2298.7	2369.4	2432.6
27.5°	2126.9	2126.9	2217.9	2296.2	2374.5
30°	2030.9	2038.5	2137.0	2222.9	2306.3
32.5°	1932.4	1945.1	2046.1	2142.1	2235.5
35°	1833.9	1846.5	1955.2	2058.7	2159.8
37.5°	1735.4	1753.1	1861.7	1970.3	2084.0
40°	1629.3	1652.0	1765.7	1879.4	1998.1
42.5°	1525.7	1551.0	1664.7	1785.9	1909.7
45°	1414.6	1444.9	1558.6	1689.9	1813.7
47.5°	1311.0	1341.3	1460.1	1588.9	1712.7
50°	1194.8	1232.7	1354.0	1487.8	1609.1
52.5°	1083.7	1126.6	1245.3	1381.7	1500.5
55°	967.5	1018.0	1139.2	1273.1	1381.7
57.5°	843.7	904.3	1030.6	1159.5	1258.0
60°	717.4	790.7	924.5	1043.3	1131.7
62.5°	581.0	666.9	813.4	924.5	987.7
65°	464.8	538.0	707.3	793.2	833.6
67.5°	386.5	429.4	591.1	654.2	654.2
70°	325.9	348.6	485.0	500.2	447.1
72.5°	275.3	288.0	378.9	341.0	255.1
75°	227.3	237.4	280.4	229.9	164.2
77.5°	181.9	189.5	212.2	174.3	128.8
80°	136.4	146.5	159.1	133.9	101.0
82.5°	96.0	103.6	118.7	98.5	73.3
85°	58.1	68.2	78.3	63.2	45.5
87.5°	25.3	32.8	42.9	32.8	20.2
90°	0.0	10.1	17.7	12.6	0.0
92.5°	0.0	0.0	2.5	2.5	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P256963

CATALOG NUMBER: HGL-S-BF-40L830-UNV-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
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)