

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: P256975

Luminaire Tested: **HGL-S-BF-60L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256975
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-60L840-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10383.8 lumens
Efficiency: N/A
Efficacy: 109.9 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

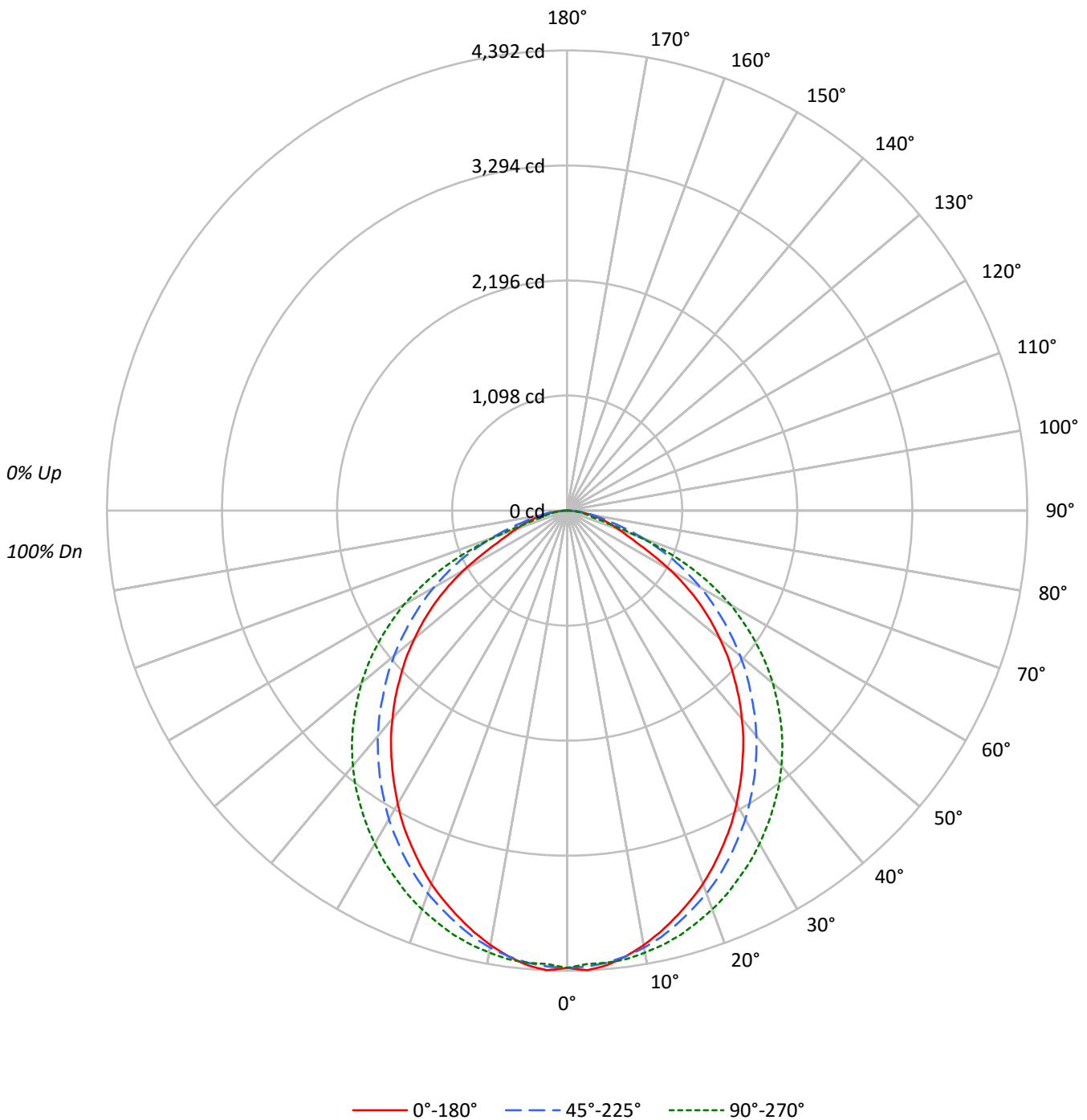
Input Watts (W): 94.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25620	25620	25620
5°	25667	25457	25431
10°	25098	25107	25340
15°	24388	24578	25177
20°	23685	24021	24908
25°	22809	23363	24589
30°	21906	22651	24281
35°	20909	21826	23915
40°	19860	20987	23521
45°	18677	19970	22974
50°	17350	18972	22243
55°	15739	17761	21198
60°	13383	16383	19670
65°	10253	14647	16860
70°	8875	12193	10911
75°	8174	9054	5099
80°	7292	7261	4361
85°	6143	6164	3254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.1	3.9
10°-20°	1150.0	11.1
20°-30°	1686.9	16.2
30°-40°	1956.2	18.8
40°-50°	1936.8	18.7
50°-60°	1634.3	15.7
60°-70°	1059.2	10.2
70°-80°	428.5	4.1
80°-90°	118.9	1.1
90°-100°	2.8	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°	3247.0	31.3
0°-40°	5203.3	50.1
0°-60°	8774.5	84.5
0°-90°	10381.0	100.0
90°-120°	2.8	0.0
90°-150°	2.8	0.0
90°-180°	3.0	0.0
0°-180°	10383.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4364	4364	4364	4364	4364	
5°	4356	4311	4331	4327	4331	411
15°	4014	3994	4078	4150	4191	1131
25°	3523	3523	3660	3772	3873	1622
35°	2920	2940	3113	3278	3439	1825
45°	2252	2300	2481	2690	2888	1738
55°	1540	1621	1814	2027	2200	1369
65°	740	857	1126	1263	1327	768
75°	362	378	446	366	261	384
85°	92	109	125	100	72	102
90°	0	16	28	20	0	6
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4363.6	4363.6	4363.6	4363.6	4363.6
2.5°	4391.7	4343.5	4355.5	4347.5	4331.4
5°	4355.5	4311.3	4331.4	4327.4	4331.4
7.5°	4291.2	4255.0	4291.2	4303.2	4319.3
10°	4210.7	4182.6	4234.9	4263.0	4283.1
12.5°	4118.2	4094.1	4166.5	4210.7	4242.9
15°	4013.7	3993.6	4078.0	4150.4	4190.6
17.5°	3905.1	3889.0	3985.5	4078.0	4122.3
20°	3792.5	3776.4	3889.0	3981.5	4049.9
22.5°	3659.8	3651.7	3780.4	3876.9	3969.4
25°	3523.0	3523.0	3659.8	3772.4	3872.9
27.5°	3386.3	3386.3	3531.1	3655.7	3780.4
30°	3233.5	3245.5	3402.4	3539.1	3671.8
32.5°	3076.6	3096.7	3257.6	3410.4	3559.2
35°	2919.8	2939.9	3112.8	3277.7	3438.6
37.5°	2762.9	2791.1	2964.0	3136.9	3317.9
40°	2594.0	2630.2	2811.2	2992.2	3181.2
42.5°	2429.1	2469.3	2650.3	2843.4	3040.4
45°	2252.2	2300.4	2481.4	2690.5	2887.6
47.5°	2087.3	2135.5	2324.6	2529.7	2726.7
50°	1902.3	1962.6	2155.6	2368.8	2561.8
52.5°	1725.3	1793.7	1982.7	2199.9	2388.9
55°	1540.3	1620.8	1813.8	2026.9	2199.9
57.5°	1343.3	1439.8	1640.9	1846.0	2002.8
60°	1142.2	1258.8	1471.9	1661.0	1801.7
62.5°	925.0	1061.7	1295.0	1471.9	1572.5
65°	740.0	856.6	1126.1	1262.8	1327.2
67.5°	615.3	683.7	941.1	1041.6	1041.6
70°	518.8	555.0	772.2	796.3	711.8
72.5°	438.4	458.5	603.3	542.9	406.2
75°	362.0	378.0	446.4	366.0	261.4
77.5°	289.6	301.6	337.8	277.5	205.1
80°	217.2	233.3	253.4	213.2	160.9
82.5°	152.8	164.9	189.0	156.8	116.6
85°	92.5	108.6	124.7	100.5	72.4
87.5°	40.2	52.3	68.4	52.3	32.2
90°	0.0	16.1	28.2	20.1	0.0
92.5°	0.0	0.0	4.0	4.0	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



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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)