

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: P256948

Luminaire Tested: **HGL-S-BF-60L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256948
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-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5191.9 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

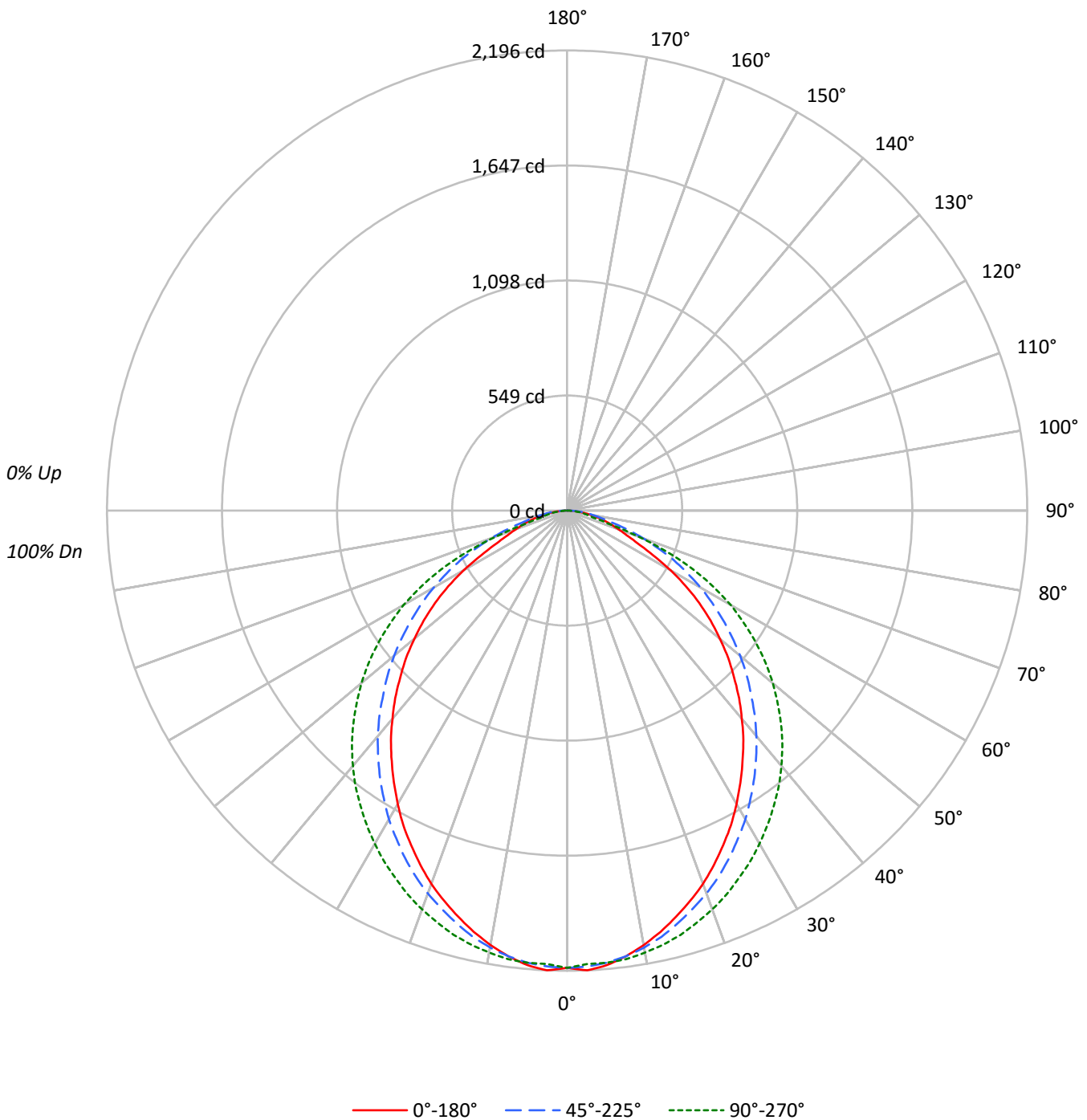
Input Watts (W): 47.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					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°	25665	25455	25431
10°	25093	25103	25341
15°	24380	24573	25177
20°	23673	24013	24908
25°	22796	23354	24590
30°	21889	22640	24281
35°	20891	21813	23915
40°	19840	20972	23521
45°	18654	19953	22974
50°	17323	18952	22243
55°	15712	17740	21197
60°	13354	16360	19671
65°	10226	14620	16860
70°	8845	12165	10911
75°	8136	9027	5099
80°	7241	7230	4358
85°	6052	6114	3254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.1	3.9
10°-20°	575.0	11.1
20°-30°	843.4	16.2
30°-40°	978.1	18.8
40°-50°	968.4	18.7
50°-60°	817.2	15.7
60°-70°	529.6	10.2
70°-80°	214.2	4.1
80°-90°	59.4	1.1
90°-100°	1.4	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°	1623.5	31.3
0°-40°	2601.6	50.1
0°-60°	4387.2	84.5
0°-90°	5190.5	100.0
90°-120°	1.4	0.0
90°-150°	1.4	0.0
90°-180°	1.0	0.0
0°-180°	5191.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2182	2182	2182	2182	2182	
5°	2178	2156	2166	2164	2166	205
15°	2007	1997	2039	2075	2095	565
25°	1762	1762	1830	1886	1936	811
35°	1460	1470	1556	1639	1719	913
45°	1126	1150	1241	1345	1444	869
55°	770	810	907	1014	1100	684
65°	370	428	563	631	664	384
75°	181	189	223	183	131	192
85°	46	54	62	50	36	51
90°	0	8	14	10	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2181.8	2181.8	2181.8	2181.8	2181.8
2.5°	2195.9	2171.7	2177.8	2173.7	2165.7
5°	2177.8	2155.6	2165.7	2163.7	2165.7
7.5°	2145.6	2127.5	2145.6	2151.6	2159.7
10°	2105.4	2091.3	2117.4	2131.5	2141.6
12.5°	2059.1	2047.1	2083.2	2105.4	2121.5
15°	2006.8	1996.8	2039.0	2075.2	2095.3
17.5°	1952.5	1944.5	1992.8	2039.0	2061.1
20°	1896.2	1888.2	1944.5	1990.7	2024.9
22.5°	1829.9	1825.9	1890.2	1938.5	1984.7
25°	1761.5	1761.5	1829.9	1886.2	1936.5
27.5°	1693.1	1693.1	1765.5	1827.9	1890.2
30°	1616.7	1622.8	1701.2	1769.6	1835.9
32.5°	1538.3	1548.4	1628.8	1705.2	1779.6
35°	1459.9	1469.9	1556.4	1638.8	1719.3
37.5°	1381.5	1395.5	1482.0	1568.5	1659.0
40°	1297.0	1315.1	1405.6	1496.1	1590.6
42.5°	1214.6	1234.7	1325.2	1421.7	1520.2
45°	1126.1	1150.2	1240.7	1345.3	1443.8
47.5°	1043.6	1067.8	1162.3	1264.8	1363.4
50°	951.1	981.3	1077.8	1184.4	1280.9
52.5°	862.7	896.8	991.4	1099.9	1194.4
55°	770.2	810.4	906.9	1013.5	1099.9
57.5°	671.6	719.9	820.4	923.0	1001.4
60°	571.1	629.4	736.0	830.5	900.9
62.5°	462.5	530.9	647.5	736.0	786.2
65°	370.0	428.3	563.0	631.4	663.6
67.5°	307.7	341.8	470.5	520.8	520.8
70°	259.4	277.5	386.1	398.1	355.9
72.5°	219.2	229.2	301.6	271.5	203.1
75°	181.0	189.0	223.2	183.0	130.7
77.5°	144.8	150.8	168.9	138.7	102.6
80°	108.6	116.6	126.7	106.6	80.4
82.5°	76.4	82.4	94.5	78.4	58.3
85°	46.2	54.3	62.3	50.3	36.2
87.5°	20.1	26.1	34.2	26.1	16.1
90°	0.0	8.0	14.1	10.1	0.0
92.5°	0.0	0.0	2.0	2.0	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)