

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: HALO COMMERCIAL

Report Number: P21679

Luminaire Tested: **PD8V120-80VC_16PAR38LED**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P21679
Test Lab: INNOVATION CENTER P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD8V120-80VC_16PAR38LED
Description: HALO 8 INCH RECESSED LED OPEN DOWNLIGHT FIXTURE IN "A"
POSITION , VERTICAL LAMP, SPECULAR CLEAR TRIM. _--ABSOLUTE
PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING A
500 WATT, NIST TRACEABLE, OMNI_DIRECTIONAL LAB LUMEN STANDARD
IN THE GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET_---
Light Source: (1) PAR 38 LED 16 WATTS
16E26PAR38
Ballast/Driver: CHROMA IN0061
CHROMA IN0061

Summary

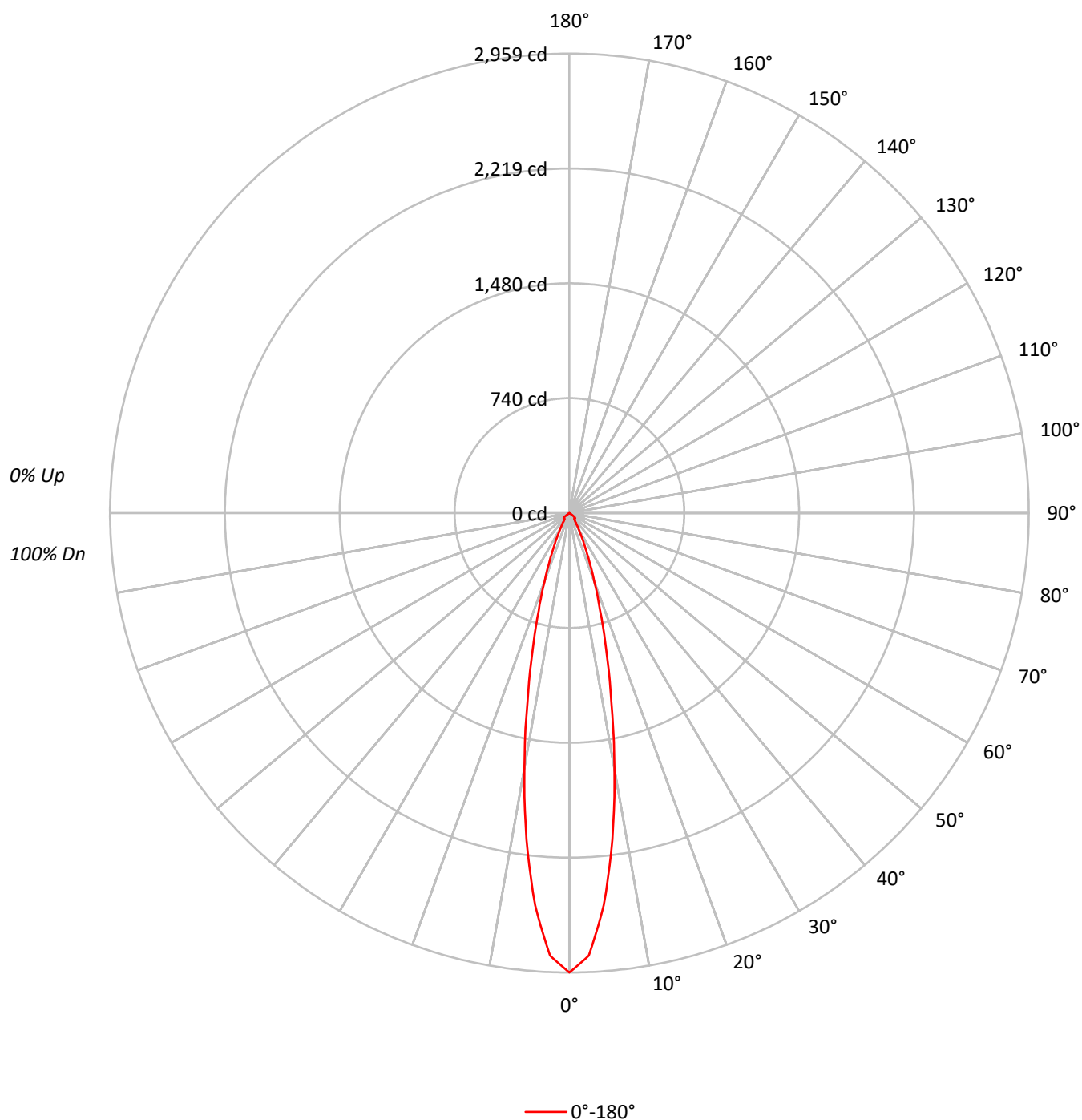
Lumens per Lamp: N/A
Luminaire Lumens: 687.0 lumens
Efficiency: N/A
Efficacy: 45.5 lumens/watt
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.4
Luminous Opening: Vertical Cylinder (Dia: 0.69' x H: 0.1')
CIE Type: Direct

Input Watts (W): 15.1
Input Voltage (V): NR
Input Current (Ain): 0.146
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 2 HR
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					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	115	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			
3	106	101	97	93	104	99	96	93	97	94	91	94	92	90	92	90	88	87			
4	102	96	91	88	100	95	91	87	93	89	86	91	88	85	89	87	84	83			
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80			
6	95	88	83	80	94	87	83	79	86	82	79	84	81	78	83	80	78	77			
7	92	84	80	76	90	84	79	76	83	79	76	81	78	75	80	77	75	74			
8	89	81	76	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71			
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69			
10	83	76	71	68	83	75	71	68	75	71	68	74	70	68	73	70	68	67			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	85799
5°	72637
10°	47587
15°	26140
20°	13529
25°	6803
30°	3539
35°	2068
40°	1572
45°	1695
50°	1811
55°	640
60°	132
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.1	31.2
10°-20°	258.4	37.6
20°-30°	112.9	16.4
30°-40°	44.5	6.5
40°-50°	37.9	5.5
50°-60°	18.6	2.7
60°-70°	0.6	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	585.4	85.2
0°-40°	629.9	91.7
0°-60°	686.4	99.9
0°-90°	687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	687.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2959	
5°	2536	214
15°	914	258
25°	231	113
35°	66	44
45°	49	38
55°	16	19
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2959
2.5°	2853
5°	2536
7.5°	2119
10°	1669
12.5°	1249
15°	914
17.5°	658
20°	468
22.5°	329
25°	231
27.5°	163
30°	117
32.5°	86
35°	66
37.5°	54
40°	48
42.5°	47
45°	49
47.5°	51
50°	49
52.5°	35
55°	16
57.5°	8
60°	3
62.5°	1
65°	0
67.5°	0
70°	0
72.5°	0
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)