

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: NEO-RAY

Report Number: P243469

Luminaire Tested: **S124DR-H575D840-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-84)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DR-H575D840-X4F0-XX-UDD-F-W
Description: DEFINE 4 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2281.4 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

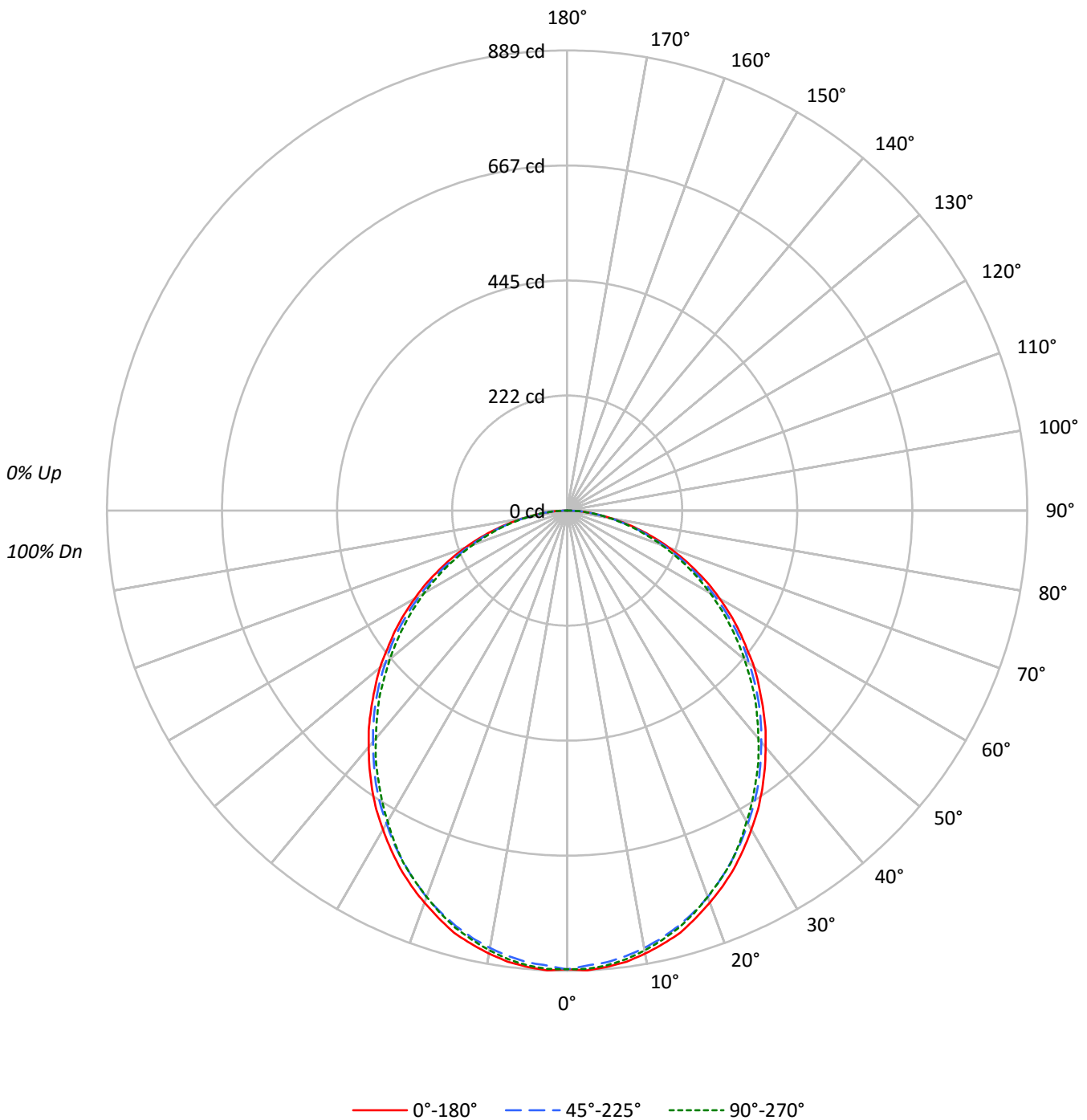
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7877	7877	7877
5°	7895	7817	7869
10°	7843	7745	7790
15°	7771	7644	7678
20°	7626	7516	7510
25°	7482	7348	7355
30°	7305	7164	7120
35°	7128	6987	6901
40°	6919	6770	6669
45°	6717	6581	6454
50°	6531	6342	6183
55°	6292	6125	5934
60°	6050	5845	5666
65°	5763	5565	5384
70°	5453	5211	5042
75°	5028	4829	4681
80°	4428	4356	4244
85°	3896	3896	3825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	3.7
10°-20°	235.6	10.3
20°-30°	346.9	15.2
30°-40°	403.6	17.7
40°-50°	403.8	17.7
50°-60°	353.2	15.5
60°-70°	262.3	11.5
70°-80°	149.4	6.6
80°-90°	43.0	1.9
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°	666.0	29.2
0°-40°	1069.7	46.9
0°-60°	1826.6	80.1
0°-90°	2281.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2281.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	886	886	886	886	886	
5°	885	883	876	883	882	84
15°	844	840	831	836	834	238
25°	763	759	749	751	750	351
35°	657	651	644	638	636	411
45°	534	532	524	516	513	413
55°	406	403	395	386	383	363
65°	274	272	265	259	256	272
75°	146	144	141	138	136	155
85°	38	38	38	37	38	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	886.2	886.2	886.2	886.2	886.2
2.5°	889.1	886.9	879.7	886.9	886.2
5°	884.8	883.3	876.1	882.6	881.9
7.5°	879.0	876.1	868.2	874.7	873.9
10°	868.9	866.7	858.1	864.6	863.1
12.5°	857.4	855.2	845.8	850.9	849.4
15°	844.4	840.1	830.7	835.7	834.3
17.5°	825.6	822.8	813.4	817.7	815.5
20°	806.2	802.6	794.6	795.4	793.9
22.5°	785.3	781.7	772.3	775.2	772.3
25°	762.9	759.3	749.2	751.4	749.9
27.5°	737.7	734.1	724.7	725.4	722.5
30°	711.7	707.4	698.0	697.3	693.7
32.5°	685.7	681.4	672.0	669.2	665.6
35°	656.9	651.1	643.9	638.2	636.0
37.5°	627.3	624.5	613.6	610.0	607.1
40°	596.3	593.4	583.4	578.3	574.7
42.5°	566.8	563.2	553.8	546.6	543.7
45°	534.3	532.2	523.5	515.6	513.4
47.5°	502.6	501.9	491.1	483.1	479.5
50°	472.3	468.0	458.6	451.4	447.1
52.5°	437.0	436.3	428.3	418.9	415.3
55°	406.0	403.1	395.2	386.5	382.9
57.5°	373.5	372.1	362.0	354.8	351.2
60°	340.3	337.5	328.8	322.3	318.7
62.5°	308.6	305.0	297.1	290.6	287.0
65°	274.0	271.8	264.6	258.9	256.0
67.5°	241.6	238.7	231.5	226.4	223.5
70°	209.8	205.5	200.5	196.1	194.0
72.5°	178.1	174.5	170.2	167.3	164.4
75°	146.4	143.5	140.6	137.7	136.3
77.5°	116.1	113.2	111.8	111.0	109.6
80°	86.5	85.1	85.1	84.4	82.9
82.5°	61.3	59.8	59.8	59.8	59.1
85°	38.2	37.5	38.2	36.8	37.5
87.5°	18.0	18.0	18.7	18.0	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)