

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: P243474

Luminaire Tested: **S124DR-H575D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243474
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-H575D930-X4F0-XX-UDD-F-W
Description: DEFINE 4 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1841.8 lumens
Efficiency: N/A
Efficacy: 107.1 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

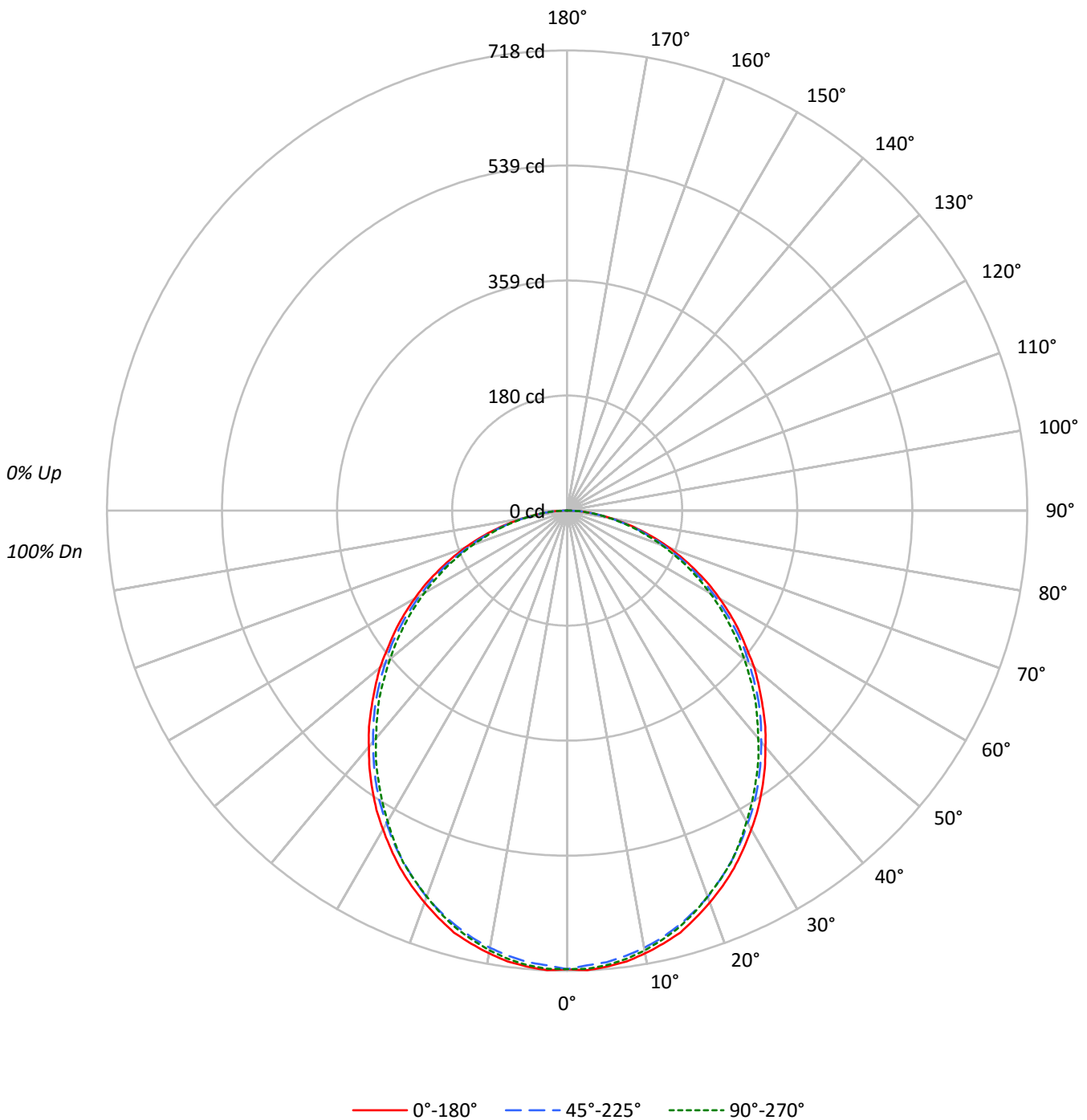
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	48	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°	6360	6360	6360
5°	6374	6311	6353
10°	6332	6253	6289
15°	6273	6171	6199
20°	6156	6068	6063
25°	6041	5933	5938
30°	5898	5784	5748
35°	5754	5642	5572
40°	5586	5465	5384
45°	5423	5312	5211
50°	5273	5119	4991
55°	5080	4944	4790
60°	4885	4720	4574
65°	4652	4495	4348
70°	4403	4205	4070
75°	4059	3898	3778
80°	3578	3517	3425
85°	3151	3151	3090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	3.7
10°-20°	190.2	10.3
20°-30°	280.1	15.2
30°-40°	325.9	17.7
40°-50°	326.0	17.7
50°-60°	285.1	15.5
60°-70°	211.8	11.5
70°-80°	120.6	6.6
80°-90°	34.8	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°	537.7	29.2
0°-40°	863.6	46.9
0°-60°	1474.7	80.1
0°-90°	1841.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1841.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	714	713	707	713	712	68
15°	682	678	671	675	674	192
25°	616	613	605	607	605	283
35°	530	526	520	515	514	332
45°	431	430	423	416	414	333
55°	328	325	319	312	309	293
65°	221	220	214	209	207	220
75°	118	116	114	111	110	125
85°	31	30	31	30	30	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	715.5	715.5	715.5	715.5	715.5
2.5°	717.8	716.0	710.2	716.0	715.5
5°	714.3	713.1	707.3	712.6	712.0
7.5°	709.6	707.3	700.9	706.2	705.6
10°	701.5	699.7	692.8	698.0	696.8
12.5°	692.2	690.4	682.9	686.9	685.8
15°	681.7	678.2	670.6	674.7	673.6
17.5°	666.6	664.2	656.7	660.2	658.4
20°	650.8	647.9	641.5	642.1	641.0
22.5°	634.0	631.1	623.5	625.8	623.5
25°	615.9	613.0	604.9	606.6	605.4
27.5°	595.5	592.6	585.1	585.6	583.3
30°	574.6	571.1	563.5	562.9	560.0
32.5°	553.6	550.1	542.6	540.2	537.3
35°	530.3	525.7	519.9	515.2	513.5
37.5°	506.5	504.1	495.4	492.5	490.2
40°	481.4	479.1	471.0	466.9	464.0
42.5°	457.6	454.7	447.1	441.3	438.9
45°	431.4	429.6	422.6	416.2	414.5
47.5°	405.8	405.2	396.4	390.0	387.1
50°	381.3	377.8	370.2	364.4	360.9
52.5°	352.8	352.2	345.8	338.2	335.3
55°	327.8	325.4	319.0	312.0	309.1
57.5°	301.6	300.4	292.2	286.4	283.5
60°	274.8	272.4	265.5	260.2	257.3
62.5°	249.2	246.3	239.8	234.6	231.7
65°	221.2	219.5	213.7	209.0	206.7
67.5°	195.0	192.7	186.9	182.8	180.5
70°	169.4	165.9	161.8	158.3	156.6
72.5°	143.8	140.9	137.4	135.1	132.7
75°	118.2	115.8	113.5	111.2	110.0
77.5°	93.7	91.4	90.2	89.7	88.5
80°	69.9	68.7	68.7	68.1	66.9
82.5°	49.5	48.3	48.3	48.3	47.7
85°	30.9	30.3	30.9	29.7	30.3
87.5°	14.6	14.6	15.1	14.6	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)