

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: P242595

Luminaire Tested: **S124DR-S575D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DR-S575D927-X4F0-XX-UDD-F-W
Description: DEFINE 4 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1822.1 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

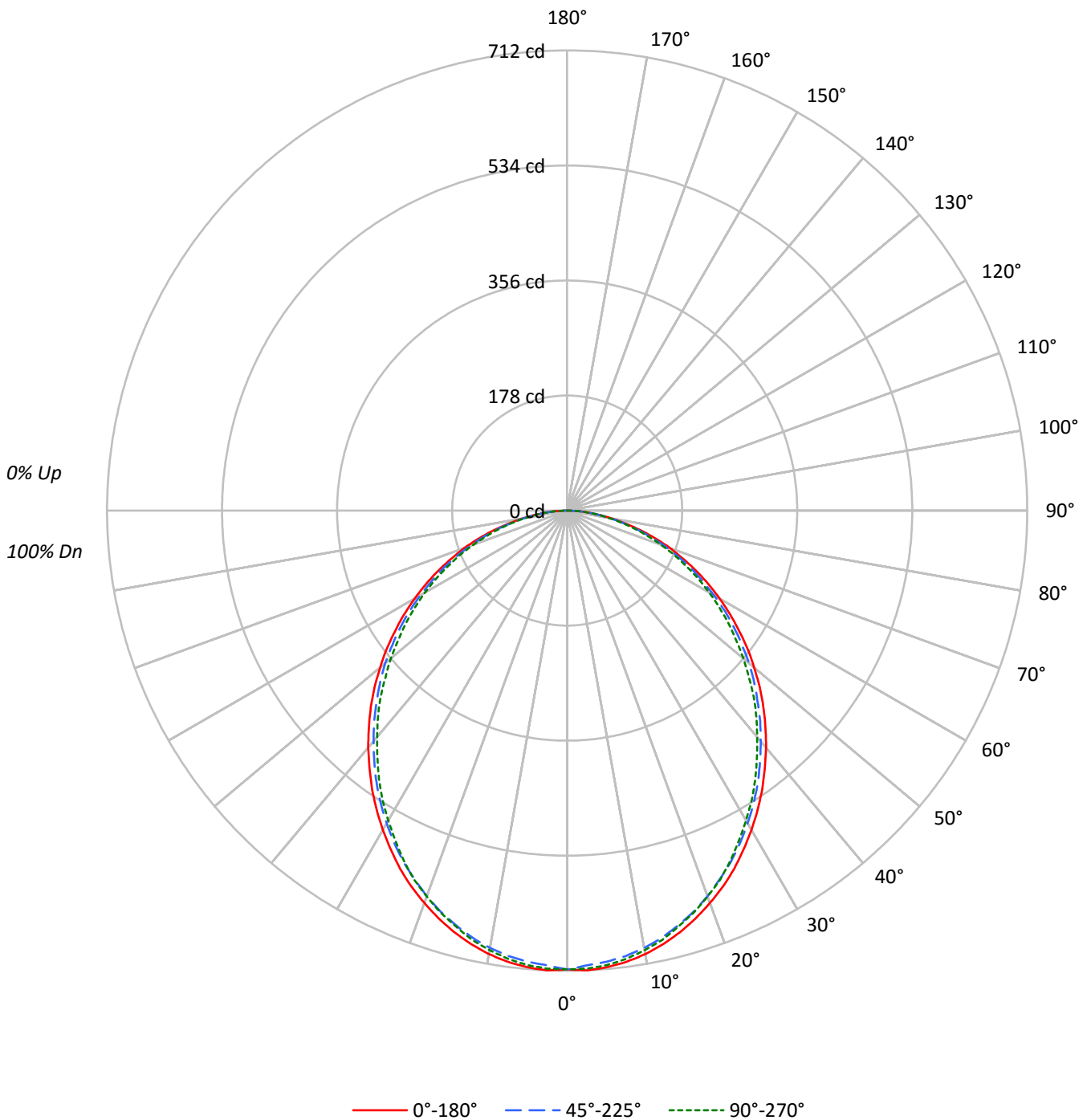
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	47	41	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	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	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6310	6310	6310
5°	6329	6253	6299
10°	6289	6202	6232
15°	6214	6114	6130
20°	6113	6005	6010
25°	5997	5880	5863
30°	5856	5733	5681
35°	5709	5580	5506
40°	5557	5406	5306
45°	5399	5234	5134
50°	5223	5082	4924
55°	5034	4883	4725
60°	4844	4661	4521
65°	4629	4451	4272
70°	4390	4169	4005
75°	4025	3829	3730
80°	3583	3435	3348
85°	3131	3019	2958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	3.7
10°-20°	188.5	10.3
20°-30°	277.4	15.2
30°-40°	322.5	17.7
40°-50°	322.5	17.7
50°-60°	282.0	15.5
60°-70°	209.4	11.5
70°-80°	118.8	6.5
80°-90°	34.0	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°	532.8	29.2
0°-40°	855.3	46.9
0°-60°	1459.8	80.1
0°-90°	1822.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1822.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	710	710	710	710	710	
5°	709	707	701	707	706	67
15°	675	673	664	668	666	190
25°	612	608	600	600	598	281
35°	526	522	514	510	507	329
45°	430	426	416	410	408	331
55°	325	323	315	308	305	291
65°	220	217	212	206	203	218
75°	117	114	112	109	109	124
85°	31	31	30	30	29	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	709.9	709.9	709.9	709.9	709.9
2.5°	712.1	710.4	704.2	709.9	709.3
5°	709.3	707.0	700.8	707.0	705.9
7.5°	704.2	701.9	695.1	700.2	699.6
10°	696.8	694.5	687.1	691.7	690.5
12.5°	687.1	684.8	676.9	682.0	680.3
15°	675.2	672.9	664.4	667.8	666.1
17.5°	661.5	658.7	650.7	653.0	651.9
20°	646.2	643.3	634.8	636.5	635.4
22.5°	629.7	625.7	617.2	620.6	618.3
25°	611.5	607.5	599.5	600.1	597.8
27.5°	591.0	587.0	579.6	578.5	575.6
30°	570.5	566.0	558.6	556.3	553.5
32.5°	548.9	544.9	537.0	534.1	531.3
35°	526.1	522.2	514.2	510.2	507.4
37.5°	502.3	498.8	490.3	486.3	482.3
40°	478.9	474.4	465.9	460.2	457.3
42.5°	453.9	451.6	442.0	435.1	433.4
45°	429.5	425.5	416.4	410.1	408.4
47.5°	403.9	401.0	392.5	385.7	381.1
50°	377.7	375.4	367.5	359.5	356.1
52.5°	352.1	349.2	340.7	333.9	329.3
55°	324.8	323.1	315.1	308.3	304.9
57.5°	299.2	297.5	289.5	282.7	279.3
60°	272.5	269.6	262.2	257.1	254.3
62.5°	246.3	244.0	236.1	231.5	228.7
65°	220.1	217.3	211.6	205.9	203.1
67.5°	193.4	191.1	185.4	179.7	179.2
70°	168.9	165.0	160.4	155.9	154.1
72.5°	142.8	138.8	135.4	132.0	130.3
75°	117.2	114.3	111.5	109.2	108.6
77.5°	92.1	91.0	88.2	87.6	85.9
80°	70.0	68.3	67.1	66.0	65.4
82.5°	48.3	47.8	47.8	47.2	46.6
85°	30.7	30.7	29.6	29.6	29.0
87.5°	14.8	14.2	13.7	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)