

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: P242699

Luminaire Tested: **S124RDR-S795D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-S795D927-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED 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: 2390.5 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

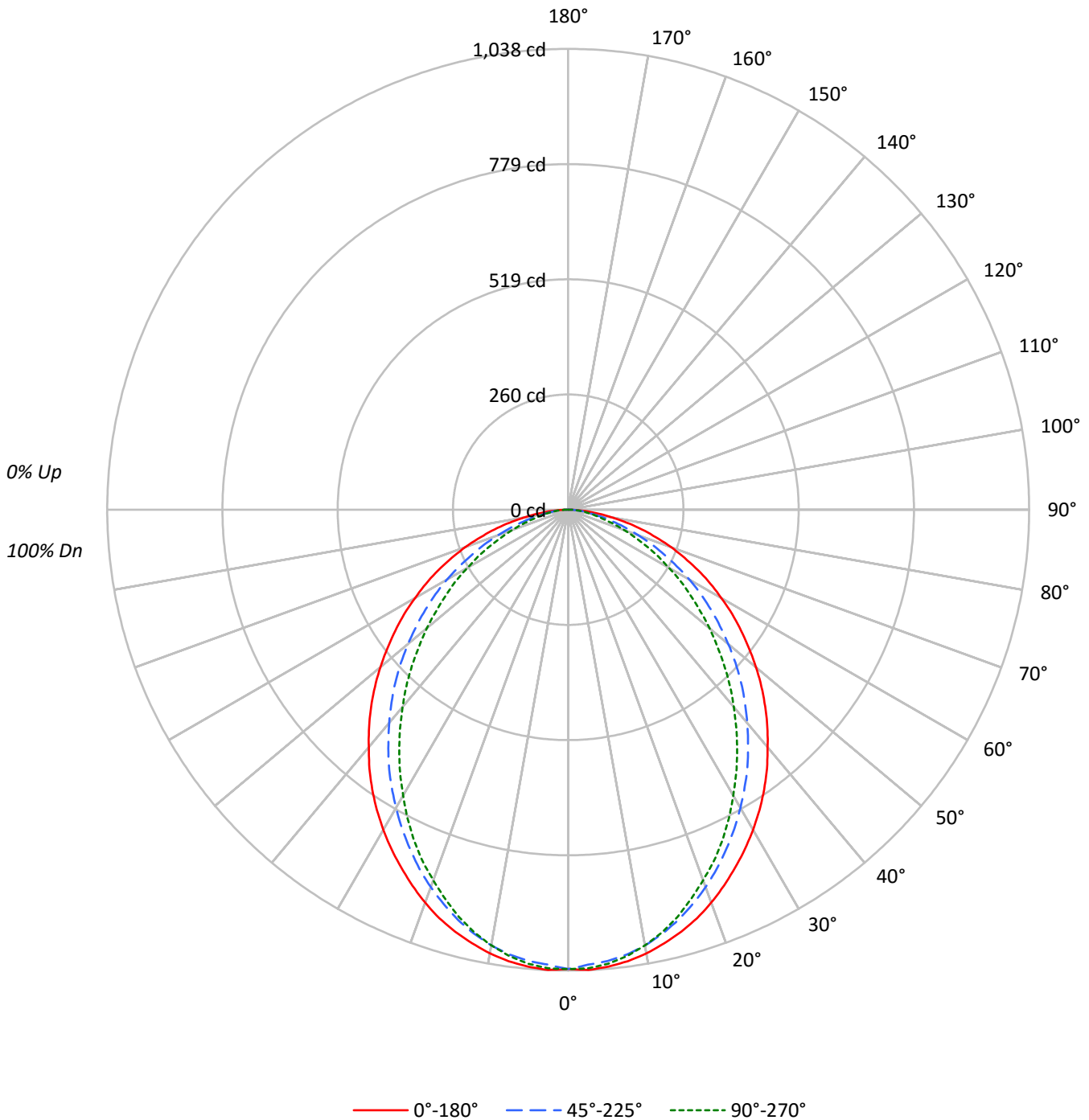
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47					47			
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41					41			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37					37			
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33					33			
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30					30			
10	55	42	35	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9196	9196	9196
5°	9217	9104	9161
10°	9160	8995	8995
15°	9054	8807	8741
20°	8910	8558	8400
25°	8725	8267	8057
30°	8546	7960	7627
35°	8347	7642	7196
40°	8107	7280	6729
45°	7887	6921	6254
50°	7636	6508	5751
55°	7366	6077	5206
60°	7070	5605	4647
65°	6798	5014	4099
70°	6404	4364	3480
75°	5904	3620	2830
80°	5150	2759	2595
85°	4365	2509	2346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	4.1
10°-20°	271.3	11.3
20°-30°	391.6	16.4
30°-40°	443.8	18.6
40°-50°	428.5	17.9
50°-60°	356.3	14.9
60°-70°	245.9	10.3
70°-80°	124.3	5.2
80°-90°	31.6	1.3
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°	760.2	31.8
0°-40°	1204.0	50.4
0°-60°	1988.8	83.2
0°-90°	2390.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2390.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1033	1030	1020	1028	1027	98
15°	984	977	957	955	950	277
25°	890	875	843	829	822	410
35°	769	744	704	677	663	481
45°	627	598	551	512	498	484
55°	475	444	392	351	336	425
65°	323	289	238	204	195	319
75°	172	143	105	87	82	181
85°	43	27	25	23	23	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1034.6	1034.6	1034.6	1034.6	1034.6
2.5°	1037.8	1034.6	1025.9	1034.6	1033.8
5°	1033.0	1029.8	1020.3	1028.3	1026.7
7.5°	1025.9	1022.7	1010.8	1016.4	1014.0
10°	1014.8	1010.8	996.6	999.7	996.6
12.5°	1000.5	995.8	978.3	979.9	975.2
15°	983.9	976.8	957.0	955.4	949.8
17.5°	964.9	954.6	931.6	927.6	919.7
20°	941.9	931.6	904.7	898.3	888.0
22.5°	916.6	904.7	875.4	865.1	857.1
25°	889.6	875.4	842.9	829.4	821.5
27.5°	861.9	844.5	810.4	794.6	783.5
30°	832.6	812.8	775.5	755.7	743.1
32.5°	801.7	778.7	739.9	716.1	704.2
35°	769.2	743.9	704.2	677.3	663.1
37.5°	735.1	709.0	665.4	636.1	621.9
40°	698.7	672.6	627.4	594.1	579.9
42.5°	663.8	636.1	588.6	554.5	539.5
45°	627.4	598.1	550.6	511.7	497.5
47.5°	590.2	560.1	511.0	470.6	454.7
50°	552.2	521.3	470.6	430.9	415.9
52.5°	513.3	483.2	430.9	390.5	374.7
55°	475.3	443.6	392.1	350.9	335.9
57.5°	438.1	404.8	354.1	312.1	301.0
60°	397.7	366.0	315.3	274.1	261.4
62.5°	361.2	328.0	275.7	238.4	228.9
65°	323.2	289.1	238.4	204.4	194.9
67.5°	283.6	251.1	203.6	173.5	162.4
70°	246.4	213.1	167.9	141.8	133.9
72.5°	206.8	177.4	135.5	114.1	106.9
75°	171.9	142.6	105.4	87.1	82.4
77.5°	135.5	110.1	78.4	65.8	64.2
80°	100.6	77.6	53.9	51.5	50.7
82.5°	70.5	49.9	38.8	37.2	36.4
85°	42.8	26.9	24.6	23.0	23.0
87.5°	18.2	11.9	11.1	10.3	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)