

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: G3-1802-639-24

Luminaire Tested: **S122RDR-S675D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G3-1802-639-24
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D835-X4F0-XX-UDD-F-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2272.6 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.15' x L: 3.88' x H: 0')
CIE Type: Direct

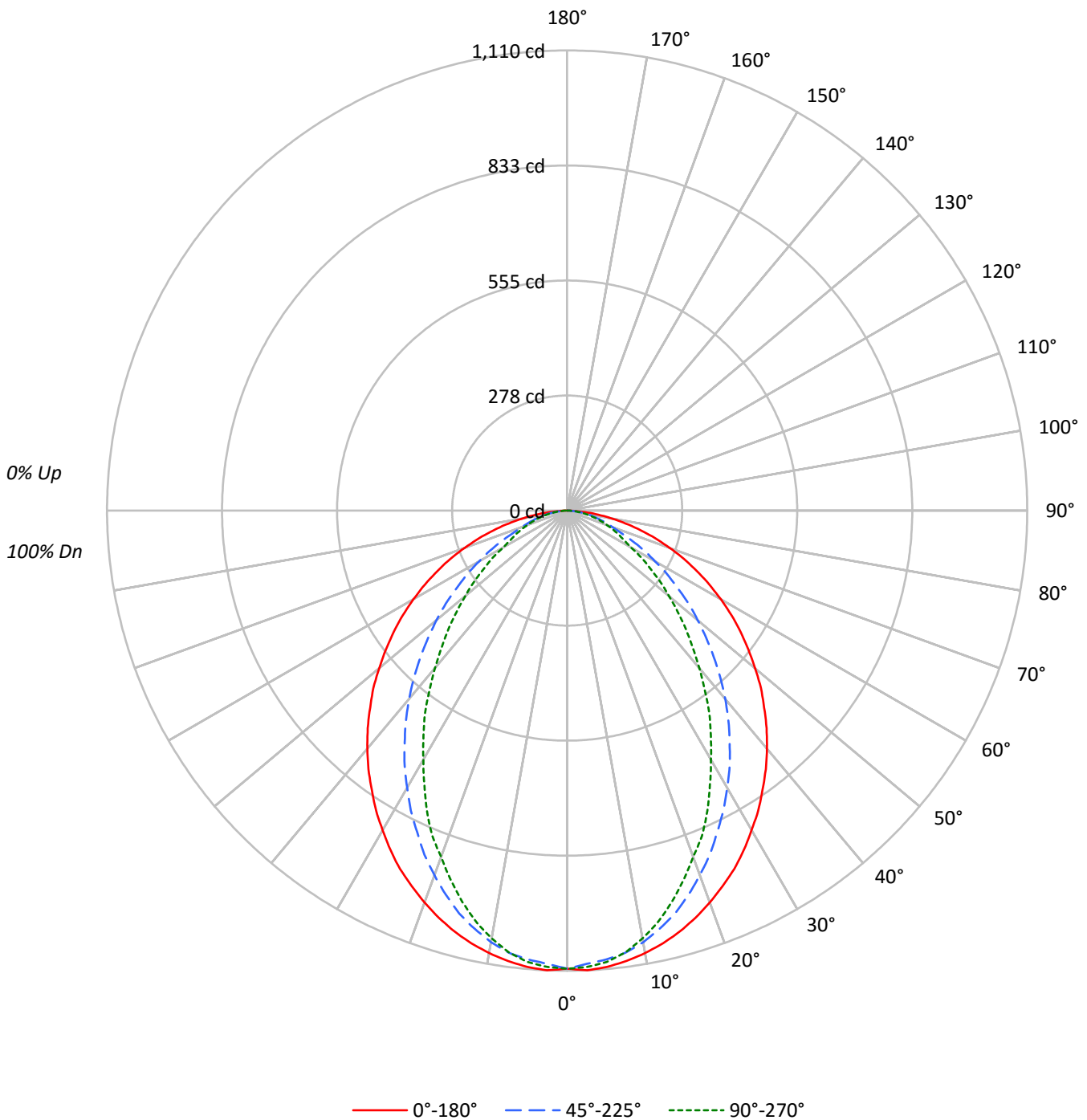
Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76					74				
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66					64				
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57					55				
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45					43				
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37					35				
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	44	38	34					32				
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21048	21048	21048
5°	21128	20784	20899
10°	20966	20444	20270
15°	20725	19838	19266
20°	20392	18973	18020
25°	20050	17990	16813
30°	19575	16980	15264
35°	19114	15882	13905
40°	18649	14745	12333
45°	18102	13469	10910
50°	17543	12179	9512
55°	16970	10793	8169
60°	16305	9333	6781
65°	15549	7842	6175
70°	14647	6460	5681
75°	13541	5888	5299
80°	11956	5265	4826
85°	9398	4152	4152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	4.6
10°-20°	284.3	12.5
20°-30°	399.1	17.6
30°-40°	435.1	19.1
40°-50°	399.9	17.6
50°-60°	314.1	13.8
60°-70°	204.4	9.0
70°-80°	105.2	4.6
80°-90°	26.9	1.2
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°	787.0	34.6
0°-40°	1222.1	53.8
0°-60°	1936.0	85.2
0°-90°	2272.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2272.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1105	1105	1105	1105	1105	
5°	1105	1100	1087	1096	1093	105
15°	1051	1040	1006	987	977	296
25°	954	922	856	815	800	439
35°	822	771	683	620	598	514
45°	672	605	500	429	405	519
55°	511	433	325	265	246	457
65°	345	264	174	140	137	342
75°	184	114	80	73	72	195
85°	43	22	19	19	19	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105	1105	1105	1105	1105
2.5°	1110	1105	1094	1104	1102
5°	1105	1100	1087	1096	1093
7.5°	1096	1090	1076	1080	1075
10°	1084	1077	1057	1054	1048
12.5°	1069	1060	1033	1027	1016
15°	1051	1040	1006	987	977
17.5°	1030	1014	972	950	934
20°	1006	986	936	911	889
22.5°	980	957	899	865	850
25°	954	922	856	815	800
27.5°	923	889	816	769	746
30°	890	852	772	721	694
32.5°	858	812	730	670	645
35°	822	771	683	620	598
37.5°	787	732	639	570	545
40°	750	690	593	522	496
42.5°	712	648	547	473	448
45°	672	605	500	429	405
47.5°	634	563	455	384	362
50°	592	521	411	342	321
52.5°	551	476	369	303	284
55°	511	433	325	265	246
57.5°	470	390	286	230	214
60°	428	348	245	194	178
62.5°	387	307	210	162	154
65°	345	264	174	140	137
67.5°	305	224	140	123	120
70°	263	185	116	106	102
72.5°	223	149	97	89	87
75°	184	114	80	73	72
77.5°	145	81	63	59	57
80°	109	58	48	44	44
82.5°	76	39	33	31	31
85°	43	22	19	19	19
87.5°	16	8	8	7	7
90°	0	0	0	0	0

(END OF REPORT)