

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1011938

Luminaire Tested: S123DIP-B775D1025UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011938
REPORT IS A COMBINATION OF REPORTS P990277 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D1025UB50-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

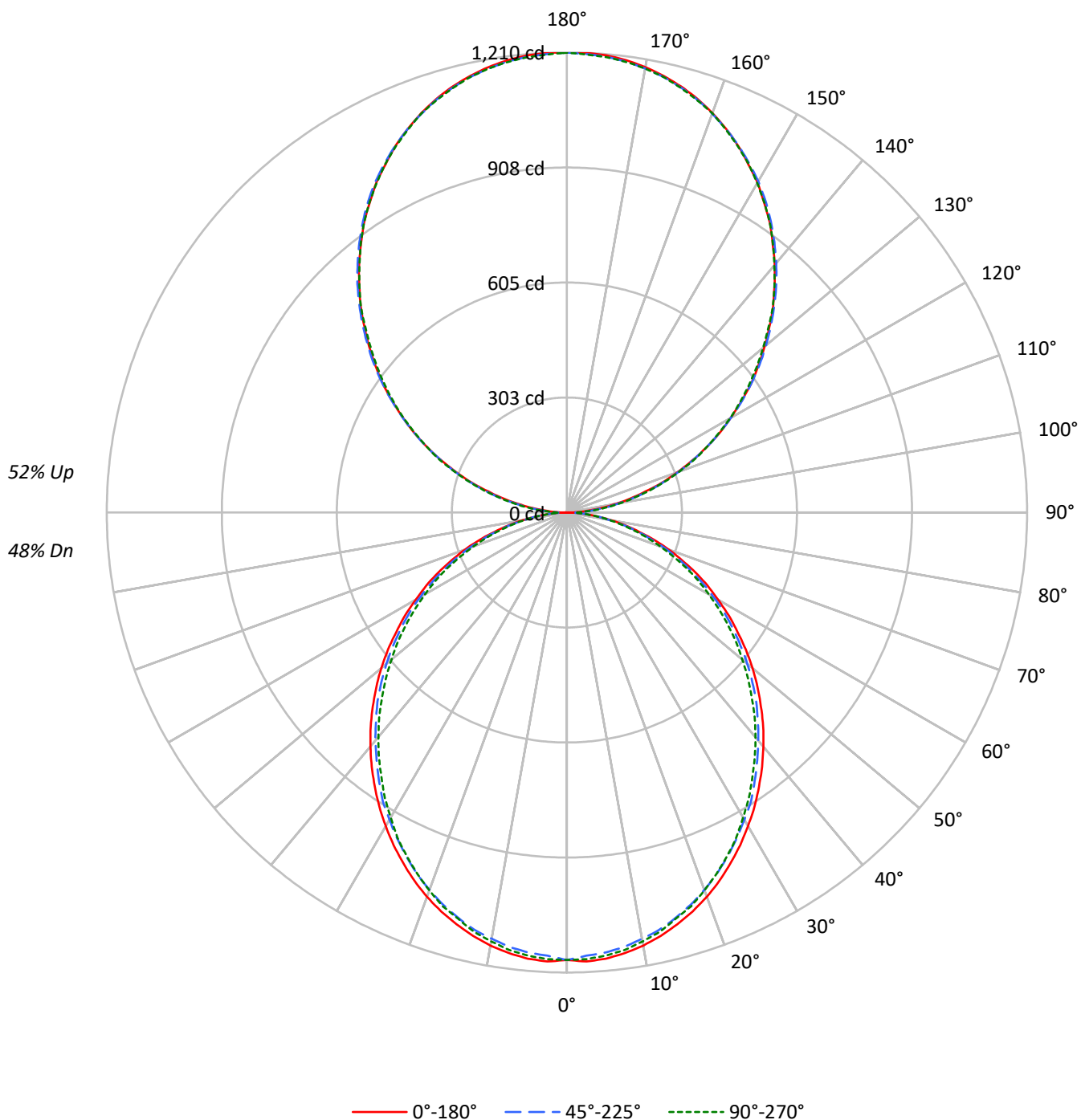
Lumens per Lamp: N/A
Luminaire Lumens: 6417.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	97	93	89	85	89	86	82	79	72	69	67	59	58	56	48	47	46
2	88	81	75	70	81	75	69	65	63	59	56	52	49	47	42	40	38
3	81	71	64	58	74	66	59	54	55	51	47	46	42	40	37	35	33
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12668	12668	12668
5°	12699	12231	12212
10°	12587	11818	11695
15°	12412	11387	11133
20°	12211	10909	10574
25°	11951	10404	9978
30°	11668	9882	9350
35°	11370	9349	8726
40°	11058	8790	8112
45°	10715	8244	7471
50°	10367	7636	6828
55°	9920	7003	6176
60°	9459	6305	5482
65°	9026	5548	4759
70°	8405	4710	3915
75°	7505	3730	3040
80°	6482	2622	2149
85°	5052	1409	1077

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10715 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	1.7
10°-20°	313.3	4.9
20°-30°	462.7	7.2
30°-40°	540.4	8.4
40°-50°	543.3	8.5
50°-60°	477.2	7.4
60°-70°	355.4	5.5
70°-80°	202.3	3.2
80°-90°	60.1	0.9
90°-100°	77.9	1.2
100°-110°	235.7	3.7
110°-120°	401.2	6.3
120°-130°	527.8	8.2
130°-140°	593.3	9.2
140°-150°	583.2	9.1
150°-160°	491.0	7.7
160°-170°	326.9	5.1
170°-180°	114.5	1.8
0°-30°	886.9	13.8
0°-40°	1427.3	22.2
0°-60°	2447.8	38.1
0°-90°	3065.6	47.8
90°-120°	714.7	11.1
90°-150°	2419.0	37.7
90°-180°	3351.0	52.2
0°-180°	6417.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1178	1173	1162	1172	1170	112
15°	1121	1117	1104	1112	1106	316
25°	1018	1012	999	1000	997	469
35°	880	874	861	855	850	551
45°	722	718	704	692	687	557
55°	548	546	533	522	517	490
65°	373	368	358	350	347	368
75°	197	193	190	185	182	211
85°	53	51	51	49	49	56
90°	1	10	23	27	28	8
95°	56	63	70	74	74	62
105°	214	216	224	224	226	229
115°	404	407	405	406	405	400
125°	591	594	592	588	584	527
135°	767	772	772	768	766	591
145°	930	932	935	934	930	581
155°	1065	1065	1066	1070	1063	490
165°	1160	1157	1157	1163	1156	327
175°	1207	1203	1203	1209	1202	115
180°	1210	1210	1210	1210	1210	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.9	1176.9	1176.9	1176.9	1176.9
2.5°	1182.0	1177.9	1166.8	1176.9	1175.9
5°	1177.9	1172.9	1161.7	1171.9	1169.8
7.5°	1168.8	1163.8	1152.6	1161.7	1160.7
10°	1156.7	1151.6	1138.5	1147.6	1145.5
12.5°	1140.5	1136.4	1124.3	1130.4	1129.4
15°	1121.3	1117.2	1104.1	1112.2	1106.1
17.5°	1100.0	1095.0	1081.8	1087.9	1085.8
20°	1075.7	1069.7	1056.5	1060.5	1057.5
22.5°	1048.4	1042.3	1029.2	1032.2	1028.2
25°	1018.0	1012.0	998.8	999.8	996.8
27.5°	986.7	980.6	966.4	967.4	964.4
30°	952.3	947.2	933.0	933.0	926.0
32.5°	917.9	910.8	900.7	893.6	890.5
35°	880.4	874.3	861.2	855.1	850.1
37.5°	843.0	834.9	821.7	814.6	811.6
40°	803.5	797.4	783.3	775.2	771.1
42.5°	764.0	757.0	742.8	734.7	730.6
45°	721.5	717.5	704.3	692.2	687.1
47.5°	680.0	674.0	661.8	649.7	645.6
50°	637.5	632.5	619.3	608.2	602.1
52.5°	593.0	590.0	575.8	566.7	560.6
55°	547.5	546.5	533.3	522.2	517.1
57.5°	505.0	500.9	490.8	480.7	474.6
60°	458.4	457.4	445.3	436.2	431.1
62.5°	416.9	413.9	401.8	392.6	389.6
65°	373.4	368.4	358.2	350.1	347.1
67.5°	326.9	322.8	314.7	307.6	303.6
70°	285.4	279.3	273.2	266.1	261.1
72.5°	241.9	237.8	230.7	224.7	222.6
75°	197.3	193.3	190.3	185.2	182.2
77.5°	157.9	155.8	151.8	147.7	147.7
80°	119.4	116.4	114.4	113.3	113.3
82.5°	82.0	82.0	82.0	79.9	78.9
85°	52.6	50.6	50.6	48.6	48.6
87.5°	26.3	23.3	22.3	21.3	21.3
90°	1.0	10.5	22.8	26.6	28.5
92.5°	28.5	34.2	39.9	42.8	40.9
95°	56.1	62.7	70.3	74.1	74.1
97.5°	92.2	96.9	102.6	107.4	106.4
100°	129.2	134.9	139.7	142.5	144.4
102.5°	172.0	174.8	181.5	184.3	183.4
105°	213.8	215.7	224.2	224.2	226.1
107.5°	263.2	264.1	267.9	270.8	269.8
110°	308.8	310.7	312.6	316.4	314.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	356.3	357.3	357.3	362.0	362.0
115°	403.8	406.7	404.8	405.7	404.8
117.5°	452.3	453.2	451.3	451.3	448.5
120°	496.9	502.6	497.9	496.9	495.0
122.5°	543.5	547.3	545.4	542.5	539.7
125°	591.0	593.8	591.9	588.1	584.3
127.5°	634.7	640.4	638.5	632.8	629.0
130°	678.4	686.0	683.2	679.4	672.7
132.5°	722.1	729.7	727.8	723.1	718.3
135°	766.8	772.5	771.5	767.7	765.8
137.5°	807.6	812.4	815.2	810.5	807.6
140°	850.4	855.1	856.1	855.1	848.5
142.5°	889.3	894.1	896.0	895.0	890.3
145°	930.2	932.1	935.0	934.0	930.2
147.5°	965.4	969.2	972.0	972.0	966.3
150°	1002.4	1004.3	1006.2	1006.2	1000.5
152.5°	1032.8	1035.7	1036.6	1038.5	1033.8
155°	1065.1	1065.1	1066.1	1069.9	1063.2
157.5°	1092.7	1091.7	1092.7	1096.5	1090.8
160°	1118.3	1116.4	1116.4	1121.2	1117.4
162.5°	1141.1	1138.3	1139.2	1144.0	1137.3
165°	1160.1	1157.3	1157.3	1163.0	1156.3
167.5°	1176.3	1172.5	1173.4	1179.1	1173.4
170°	1189.6	1185.8	1185.8	1192.4	1185.8
172.5°	1200.0	1196.2	1196.2	1201.9	1195.3
175°	1206.7	1202.9	1202.9	1208.6	1201.9
177.5°	1210.5	1206.7	1206.7	1212.4	1205.7
180°	1209.5	1209.5	1209.5	1209.5	1209.5

(END OF REPORT)