

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: P1027797

Luminaire Tested: S125DIP-B375D1270UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027797
REPORT IS A COMBINATION OF REPORTS P1001883 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1270UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

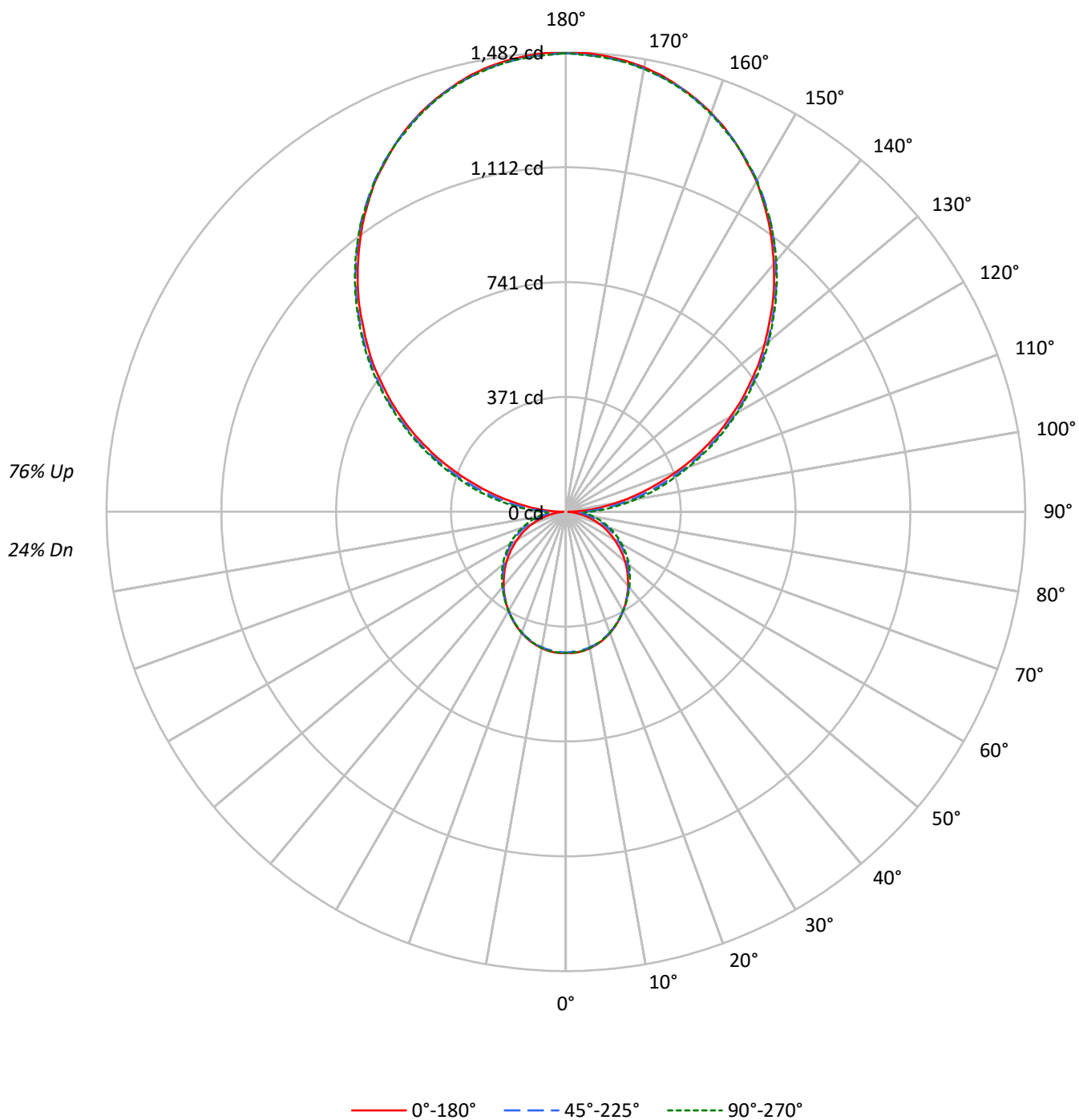
Lumens per Lamp: N/A
Luminaire Lumens: 5540.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32
1	92	87	83	80	81	78	74	72	60	57	56	43	42	40	28	27	26
2	83	76	70	65	74	68	63	58	52	49	46	38	35	33	24	23	22
3	76	67	59	54	67	59	53	48	46	42	38	33	30	28	21	20	18
4	69	59	51	45	61	52	46	41	40	36	32	29	26	24	19	17	16
5	63	52	44	38	56	46	40	35	36	31	28	26	23	21	17	15	14
6	58	46	39	33	51	42	35	30	32	27	24	24	20	18	15	13	12
7	54	42	34	29	47	37	31	26	29	24	21	21	18	16	14	12	11
8	50	38	30	25	44	34	27	23	26	22	18	19	16	14	13	11	9
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8
10	43	31	24	20	38	28	22	18	22	18	14	16	13	11	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2914	2914	2914
5°	2919	2853	2860
10°	2897	2795	2787
15°	2862	2727	2697
20°	2814	2646	2608
25°	2757	2558	2500
30°	2690	2464	2401
35°	2626	2376	2311
40°	2561	2284	2220
45°	2488	2204	2138
50°	2417	2117	2064
55°	2333	2034	1977
60°	2240	1940	1889
65°	2143	1841	1790
70°	2032	1708	1686
75°	1857	1577	1561
80°	1629	1417	1421
85°	1401	1289	1347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2488 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	0.8
10°-20°	122.2	2.2
20°-30°	181.7	3.3
30°-40°	215.2	3.9
40°-50°	222.5	4.0
50°-60°	204.9	3.7
60°-70°	165.7	3.0
70°-80°	110.8	2.0
80°-90°	59.6	1.1
90°-100°	130.7	2.4
100°-110°	316.0	5.7
110°-120°	511.6	9.2
120°-130°	661.5	11.9
130°-140°	735.1	13.3
140°-150°	717.4	13.0
150°-160°	602.0	10.9
160°-170°	400.2	7.2
170°-180°	140.0	2.5
0°-30°	346.9	6.3
0°-40°	562.1	10.1
0°-60°	989.5	17.9
0°-90°	1325.6	23.9
90°-120°	958.2	17.3
90°-150°	3072.3	55.5
90°-180°	4214.0	76.1
0°-180°	5540.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	455	454	451	454	454	43
15°	434	435	432	434	432	122
25°	395	396	393	395	393	182
35°	342	345	343	345	345	214
45°	281	286	288	292	292	217
55°	216	223	230	235	237	193
65°	149	159	170	177	178	148
75°	82	94	108	117	119	87
85°	24	39	55	65	68	26
90°	8	32	55	71	78	10
95°	81	94	121	139	144	83
105°	266	279	300	316	322	284
115°	499	507	520	527	529	494
125°	726	732	742	747	748	650
135°	943	949	953	959	957	727
145°	1141	1146	1149	1151	1150	713
155°	1306	1306	1307	1311	1306	601
165°	1420	1417	1418	1423	1416	401
175°	1476	1471	1471	1478	1470	140
180°	1479	1479	1479	1479	1479	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.8	454.8	454.8	454.8	454.8
2.5°	456.2	455.3	452.2	455.3	454.8
5°	454.8	453.9	450.8	454.4	453.9
7.5°	451.7	451.3	448.1	451.3	450.8
10°	447.3	447.3	443.7	446.8	446.4
12.5°	441.0	441.5	438.8	441.0	439.7
15°	434.3	434.8	431.6	434.3	432.5
17.5°	425.9	426.7	423.6	425.9	424.5
20°	416.5	417.4	414.3	415.6	415.6
22.5°	405.8	407.6	404.0	405.8	404.4
25°	394.6	396.0	393.3	395.1	392.9
27.5°	382.6	384.4	381.3	382.6	381.7
30°	368.8	371.4	368.8	369.7	369.2
32.5°	356.3	358.5	356.7	357.6	357.2
35°	341.6	344.7	343.4	344.7	344.7
37.5°	327.3	330.0	329.5	331.3	330.9
40°	312.6	316.2	315.7	317.5	318.4
42.5°	296.5	301.4	302.8	305.0	305.0
45°	281.4	286.3	288.5	291.6	292.1
47.5°	265.8	270.2	273.8	278.3	279.1
50°	249.7	254.6	259.5	264.4	265.8
52.5°	232.8	239.0	245.3	250.6	251.5
55°	216.3	223.4	230.5	235.4	237.2
57.5°	199.3	207.8	215.8	221.2	222.5
60°	182.4	191.3	200.2	206.9	208.2
62.5°	165.9	174.8	184.6	192.2	194.0
65°	148.9	159.2	169.9	176.6	178.4
67.5°	133.3	143.1	153.8	161.9	164.1
70°	115.9	126.2	137.8	146.3	148.9
72.5°	99.0	109.7	122.6	132.0	133.8
75°	82.0	93.6	107.9	116.8	119.1
77.5°	65.5	78.9	92.3	102.1	103.9
80°	50.4	63.8	78.9	88.7	90.5
82.5°	36.6	50.8	66.4	75.8	79.4
85°	24.5	39.2	54.8	64.7	68.2
87.5°	15.6	29.9	45.0	55.3	58.4
90°	8.3	31.8	55.0	71.0	77.5
92.5°	40.7	59.5	85.5	103.3	108.7
95°	80.6	94.5	121.2	139.1	144.5
97.5°	120.5	132.4	163.2	179.4	183.8
100°	166.1	175.5	204.6	224.4	229.4
102.5°	215.2	229.3	249.0	269.4	275.5
105°	266.5	279.3	299.6	315.5	322.1
107.5°	322.5	334.4	353.1	365.6	368.2
110°	380.7	391.9	407.8	419.7	421.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	440.6	446.9	463.6	472.7	473.5
115°	498.9	506.6	520.5	527.3	528.9
117.5°	558.2	561.7	575.1	583.8	582.3
120°	613.5	620.7	632.0	639.6	637.7
122.5°	673.0	674.5	687.8	693.8	693.0
125°	725.9	732.3	742.5	747.3	748.3
127.5°	784.1	787.2	795.9	801.5	801.8
130°	835.9	841.3	849.8	855.0	854.8
132.5°	887.3	897.7	901.1	906.1	904.5
135°	942.6	949.0	953.4	959.2	956.8
137.5°	994.4	1000.8	1004.9	1011.5	1007.5
140°	1043.4	1049.2	1053.1	1060.3	1056.4
142.5°	1092.9	1097.1	1101.7	1106.9	1102.9
145°	1141.3	1145.5	1148.9	1151.1	1149.5
147.5°	1185.8	1189.2	1191.5	1195.9	1187.6
150°	1230.7	1229.5	1234.1	1234.1	1232.2
152.5°	1267.5	1269.8	1271.0	1274.4	1269.8
155°	1305.5	1305.5	1306.6	1311.3	1305.5
157.5°	1340.0	1337.7	1338.9	1343.5	1335.4
160°	1370.0	1366.5	1367.7	1372.3	1366.5
162.5°	1396.4	1394.1	1394.1	1399.9	1393.0
165°	1419.5	1417.2	1418.3	1422.9	1416.0
167.5°	1440.2	1435.6	1435.6	1442.5	1435.6
170°	1456.3	1451.7	1451.7	1458.6	1450.6
172.5°	1467.8	1463.2	1463.2	1470.1	1463.2
175°	1475.9	1471.3	1471.3	1478.2	1470.1
177.5°	1481.6	1477.0	1475.9	1482.8	1474.7
180°	1479.3	1479.3	1479.3	1479.3	1479.3

(END OF REPORT)