

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: P1027824

Luminaire Tested: S125DIP-B375D1270UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027824
REPORT IS A COMBINATION OF REPORTS P1001925 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1270UB40-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

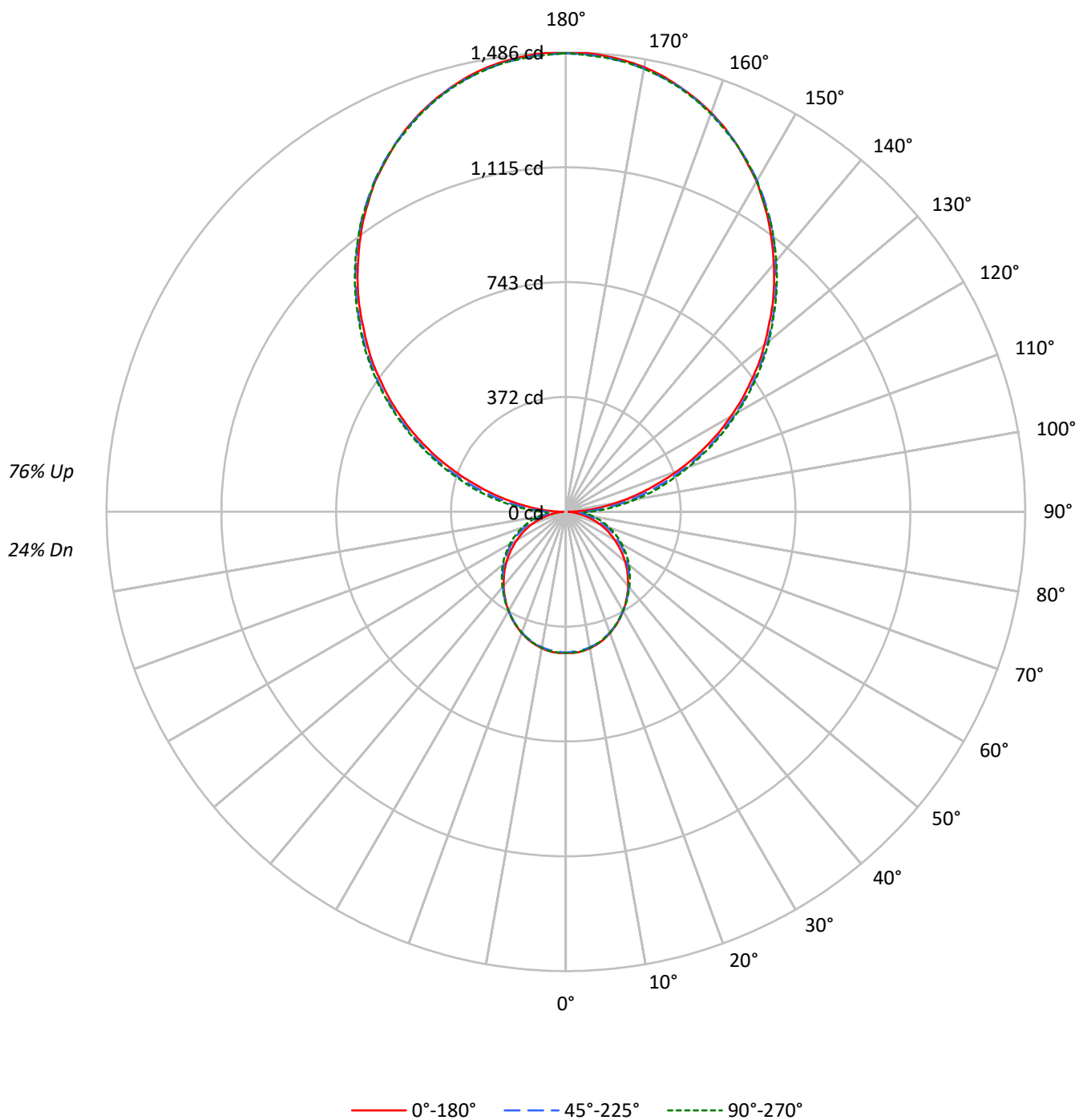
Lumens per Lamp: N/A
Luminaire Lumens: 5556.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	2922	2922	2922
5°	2927	2861	2868
10°	2905	2803	2795
15°	2870	2735	2705
20°	2822	2653	2615
25°	2766	2566	2507
30°	2697	2471	2408
35°	2633	2383	2318
40°	2568	2290	2226
45°	2495	2210	2144
50°	2424	2124	2069
55°	2339	2040	1983
60°	2246	1946	1894
65°	2150	1847	1795
70°	2039	1713	1692
75°	1863	1581	1565
80°	1632	1422	1425
85°	1407	1293	1351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2495 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	0.8
10°-20°	122.5	2.2
20°-30°	182.2	3.3
30°-40°	215.8	3.9
40°-50°	223.1	4.0
50°-60°	205.5	3.7
60°-70°	166.1	3.0
70°-80°	111.2	2.0
80°-90°	59.8	1.1
90°-100°	131.0	2.4
100°-110°	316.9	5.7
110°-120°	513.0	9.2
120°-130°	663.4	11.9
130°-140°	737.2	13.3
140°-150°	719.5	13.0
150°-160°	603.7	10.9
160°-170°	401.3	7.2
170°-180°	140.4	2.5
0°-30°	347.9	6.3
0°-40°	563.7	10.1
0°-60°	992.3	17.9
0°-90°	1329.4	23.9
90°-120°	961.0	17.3
90°-150°	3081.1	55.5
90°-180°	4227.0	76.1
0°-180°	5556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	456	455	452	456	455	43
15°	436	436	433	436	434	123
25°	396	397	394	396	394	182
35°	342	346	344	346	346	214
45°	282	287	289	292	293	218
55°	217	224	231	236	238	194
65°	149	160	170	177	179	148
75°	82	94	108	117	119	87
85°	25	39	55	65	68	26
90°	8	32	55	71	78	10
95°	81	95	122	140	145	83
105°	267	280	300	316	323	285
115°	500	508	522	529	530	495
125°	728	734	745	749	750	652
135°	945	952	956	962	960	729
145°	1145	1149	1152	1154	1153	715
155°	1309	1309	1310	1315	1309	603
165°	1424	1421	1422	1427	1420	402
175°	1480	1476	1476	1482	1474	141
180°	1484	1484	1484	1484	1484	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	456.1	456.1	456.1	456.1	456.1
2.5°	457.5	456.6	453.4	456.6	456.1
5°	456.1	455.2	452.1	455.7	455.2
7.5°	453.0	452.5	449.4	452.5	452.1
10°	448.5	448.5	444.9	448.1	447.6
12.5°	442.3	442.7	440.0	442.3	440.9
15°	435.6	436.0	432.9	435.6	433.8
17.5°	427.1	428.0	424.8	427.1	425.7
20°	417.7	418.6	415.4	416.8	416.8
22.5°	406.9	408.7	405.1	406.9	405.6
25°	395.8	397.1	394.4	396.2	394.0
27.5°	383.7	385.5	382.3	383.7	382.8
30°	369.8	372.5	369.8	370.7	370.3
32.5°	357.3	359.5	357.7	358.6	358.2
35°	342.5	345.7	344.3	345.7	345.7
37.5°	328.2	330.9	330.5	332.3	331.8
40°	313.5	317.1	316.6	318.4	319.3
42.5°	297.4	302.3	303.6	305.9	305.9
45°	282.2	287.1	289.3	292.5	292.9
47.5°	266.5	271.0	274.6	279.0	279.9
50°	250.4	255.3	260.3	265.2	266.5
52.5°	233.4	239.7	246.0	251.3	252.2
55°	216.9	224.0	231.2	236.1	237.9
57.5°	199.9	208.4	216.4	221.8	223.1
60°	182.9	191.8	200.8	207.5	208.8
62.5°	166.4	175.3	185.1	192.7	194.5
65°	149.4	159.6	170.4	177.1	178.9
67.5°	133.7	143.5	154.3	162.3	164.6
70°	116.3	126.6	138.2	146.7	149.4
72.5°	99.3	110.0	123.0	132.4	134.2
75°	82.3	93.9	108.2	117.2	119.4
77.5°	65.7	79.2	92.6	102.4	104.2
80°	50.5	63.9	79.2	89.0	90.8
82.5°	36.7	51.0	66.6	76.0	79.6
85°	24.6	39.4	55.0	64.8	68.4
87.5°	15.7	30.0	45.2	55.5	58.6
90°	8.4	31.9	55.2	71.2	77.8
92.5°	40.9	59.6	85.7	103.6	109.0
95°	80.8	94.8	121.5	139.5	144.9
97.5°	120.9	132.7	163.7	179.9	184.3
100°	166.5	175.9	205.3	225.0	230.1
102.5°	215.8	230.1	249.6	270.2	276.3
105°	267.2	280.2	300.5	316.4	323.0
107.5°	323.4	335.4	354.2	366.5	369.2
110°	381.8	393.0	408.9	420.9	422.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	441.8	448.2	464.9	474.1	474.9
115°	500.3	508.0	521.9	528.9	530.4
117.5°	559.9	563.3	576.8	585.6	584.1
120°	615.3	622.5	633.9	641.5	639.5
122.5°	674.9	676.5	689.8	695.8	695.0
125°	728.0	734.5	744.6	749.4	750.5
127.5°	786.4	789.5	798.2	803.8	804.2
130°	838.4	843.7	852.3	857.4	857.4
132.5°	889.9	900.3	903.7	908.7	907.0
135°	945.3	951.8	956.1	961.9	959.5
137.5°	997.3	1003.7	1007.8	1014.4	1010.4
140°	1046.4	1052.2	1056.2	1063.4	1059.4
142.5°	1096.1	1100.3	1104.9	1110.1	1106.1
145°	1144.6	1148.8	1152.3	1154.5	1152.8
147.5°	1189.2	1192.7	1195.0	1199.3	1191.0
150°	1234.2	1233.1	1237.7	1237.7	1235.8
152.5°	1271.2	1273.5	1274.7	1278.1	1273.5
155°	1309.3	1309.3	1310.4	1315.1	1309.3
157.5°	1343.9	1341.6	1342.8	1347.4	1339.3
160°	1373.9	1370.5	1371.6	1376.3	1370.5
162.5°	1400.5	1398.2	1398.2	1404.0	1397.0
165°	1423.6	1421.3	1422.4	1427.1	1420.1
167.5°	1444.4	1439.8	1439.8	1446.7	1439.8
170°	1460.5	1455.9	1455.9	1462.8	1454.8
172.5°	1472.1	1467.5	1467.5	1474.4	1467.5
175°	1480.2	1475.5	1475.5	1482.5	1474.4
177.5°	1485.9	1481.3	1480.2	1487.1	1479.0
180°	1483.6	1483.6	1483.6	1483.6	1483.6

(END OF REPORT)