

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: P1027751

Luminaire Tested: S125DIP-B375D1090UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027751
REPORT IS A COMBINATION OF REPORTS P1001822 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1090UB27-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

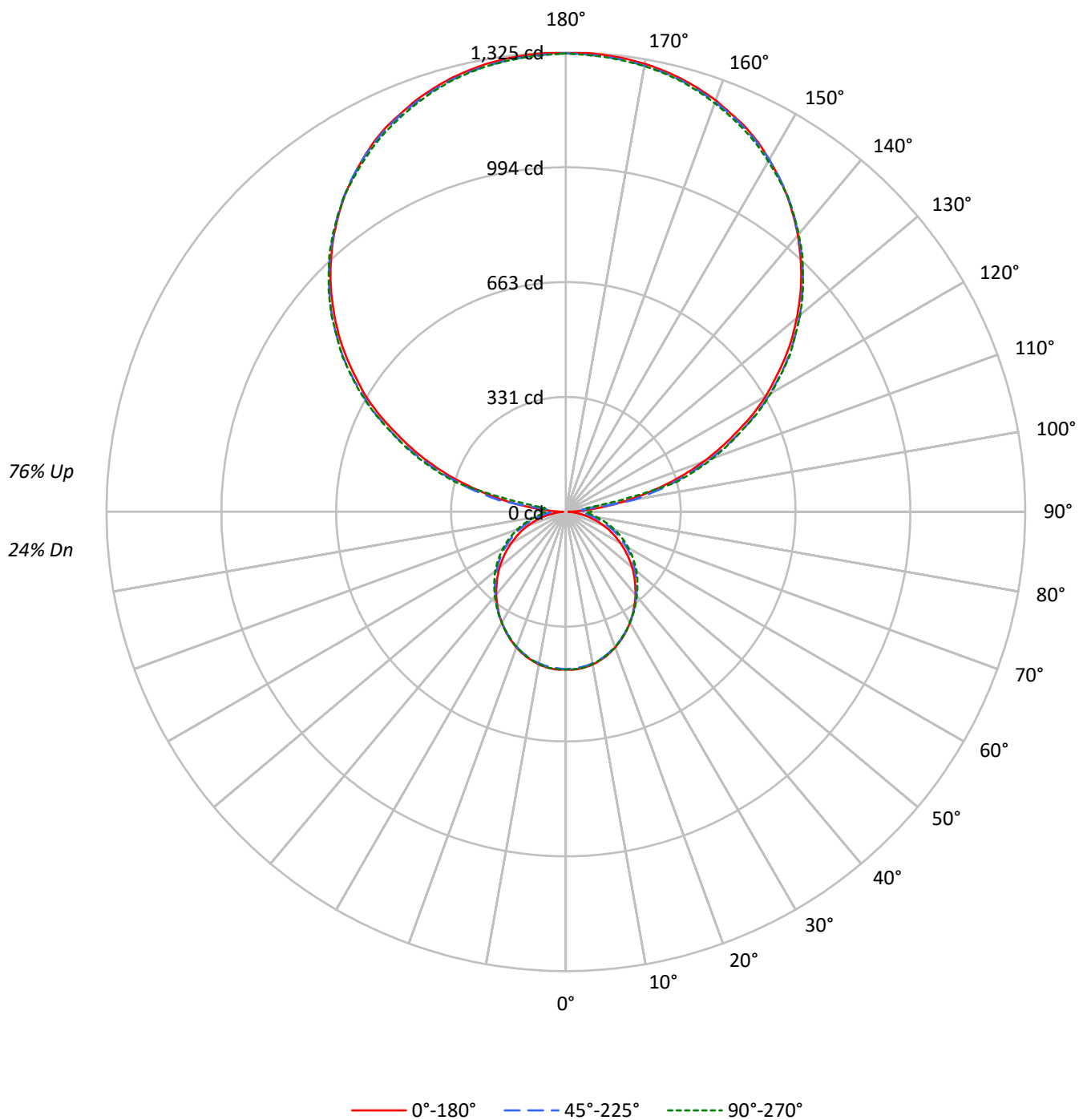
Lumens per Lamp: N/A
Luminaire Lumens: 5472.0 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	75	72	60	58	56	43	42	41	28	27	27
2	83	76	70	65	74	68	63	58	52	49	46	38	36	34	24	23	22
3	76	67	59	54	67	59	53	49	46	42	38	33	31	28	22	20	19
4	69	59	51	45	61	52	46	41	41	36	32	29	26	24	19	17	16
5	63	52	44	38	56	47	40	35	36	31	28	26	23	21	17	15	14
6	58	47	39	33	51	42	35	30	32	27	24	24	20	18	16	14	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	25	20	24	20	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	4.1
50°-60°	204.9	3.7
60°-70°	165.7	3.0
70°-80°	110.8	2.0
80°-90°	59.2	1.1
90°-100°	77.2	1.4
100°-110°	322.1	5.9
110°-120°	553.2	10.1
120°-130°	698.7	12.8
130°-140°	745.7	13.6
140°-150°	697.0	12.7
150°-160°	563.1	10.3
160°-170°	364.2	6.7
170°-180°	125.6	2.3
0°-30°	346.9	6.3
0°-40°	562.1	10.3
0°-60°	989.5	18.1
0°-90°	1325.2	24.2
90°-120°	952.5	17.4
90°-150°	3093.9	56.5
90°-180°	4147.0	75.8
0°-180°	5472.0	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	30	52	67	73	8
95°	62	70	48	63	66	73
105°	292	303	316	325	328	309
115°	544	552	564	568	565	539
125°	771	778	786	790	789	689
135°	960	966	967	971	967	740
145°	1113	1114	1114	1118	1113	696
155°	1225	1219	1221	1224	1216	564
165°	1293	1287	1288	1294	1286	365
175°	1322	1316	1317	1325	1316	126
180°	1322	1322	1322	1322	1322	

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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°	8.1	30.2	52.3	67.4	73.4
92.5°	24.8	29.0	50.5	65.2	69.3
95°	61.7	70.3	48.3	63.0	66.1
97.5°	110.3	126.8	48.4	59.7	63.9
100°	168.6	180.9	199.0	62.4	61.2
102.5°	227.9	240.3	256.1	267.0	187.3
105°	292.1	303.1	316.5	325.4	327.7
107.5°	358.4	364.6	379.4	389.4	388.1
110°	422.5	427.9	442.4	447.9	452.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	483.3	490.2	503.3	507.4	508.5
115°	543.7	551.7	564.2	568.3	565.1
117.5°	606.9	609.2	624.2	625.9	627.1
120°	665.7	666.1	679.2	684.9	682.7
122.5°	717.2	722.5	733.3	738.5	735.3
125°	771.1	777.5	786.5	789.7	788.9
127.5°	822.6	827.1	833.7	838.4	833.2
130°	869.6	874.1	881.3	884.6	881.9
132.5°	916.2	922.1	923.7	929.9	926.8
135°	960.3	965.7	967.0	970.8	967.1
137.5°	1001.5	1006.9	1006.7	1012.1	1009.0
140°	1041.2	1043.1	1042.7	1049.5	1045.4
142.5°	1077.4	1078.0	1080.0	1084.0	1079.9
145°	1112.7	1114.3	1114.3	1117.5	1113.4
147.5°	1143.7	1143.7	1144.7	1146.5	1140.6
150°	1173.1	1171.1	1173.1	1175.0	1167.6
152.5°	1201.5	1196.6	1198.6	1200.5	1193.7
155°	1225.0	1219.1	1221.1	1224.0	1216.2
157.5°	1243.6	1240.7	1240.7	1243.6	1235.8
160°	1263.2	1257.4	1258.3	1262.3	1254.4
162.5°	1278.9	1273.0	1274.0	1279.9	1271.1
165°	1292.6	1286.8	1287.7	1293.6	1285.8
167.5°	1303.4	1297.5	1298.5	1305.4	1296.6
170°	1312.2	1305.4	1306.4	1314.2	1305.4
172.5°	1318.1	1311.3	1313.2	1320.1	1311.3
175°	1322.0	1316.2	1317.1	1325.0	1316.2
177.5°	1325.0	1319.1	1320.1	1326.9	1319.1
180°	1322.0	1322.0	1322.0	1322.0	1322.0

(END OF REPORT)