

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: P999390

Luminaire Tested: SA2XXRDIP-B1005D725UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999390
REPORT IS A COMBINATION OF REPORTS P987941 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B1005D725UB27-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

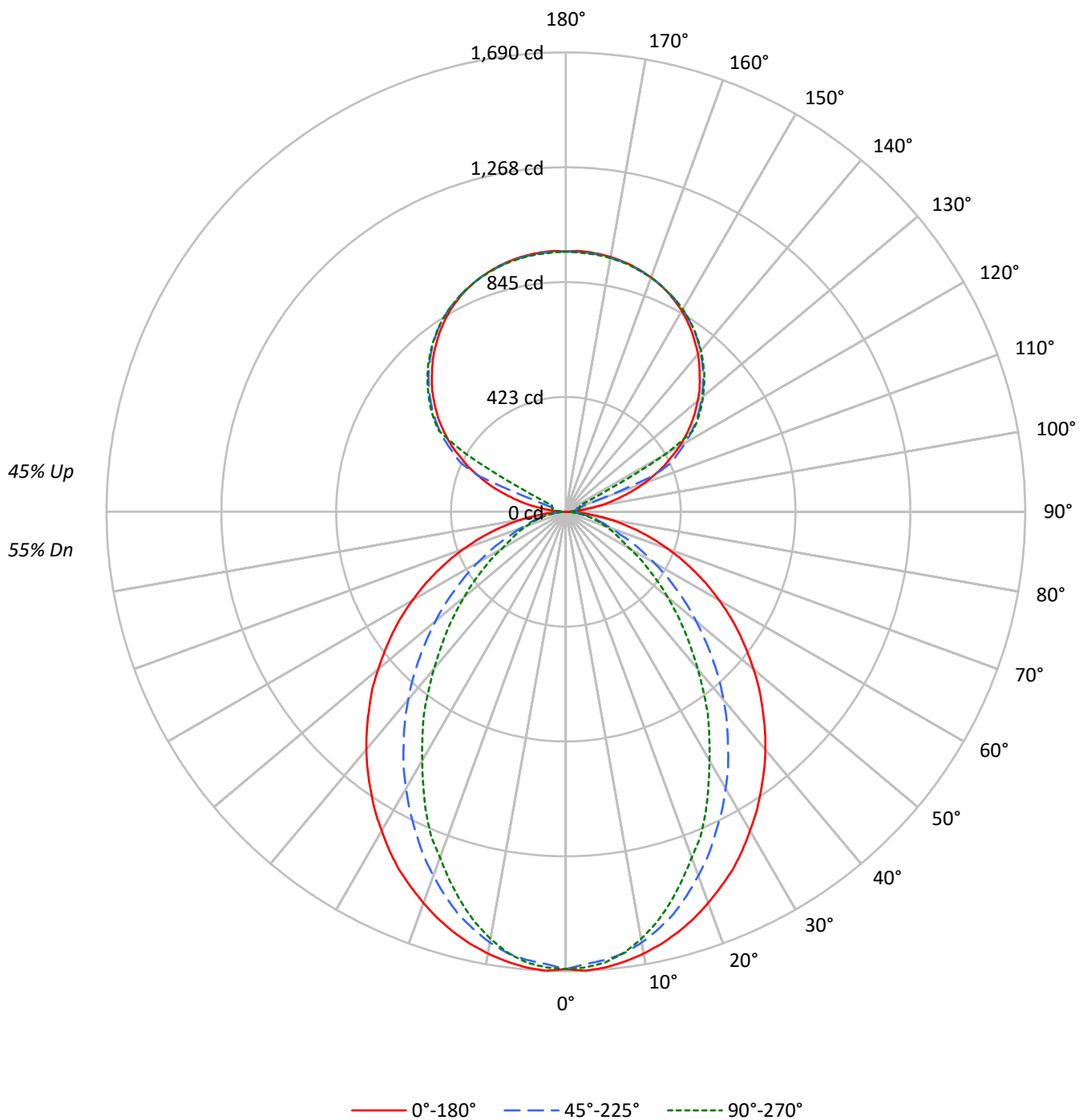
Lumens per Lamp: N/A
Luminaire Lumens: 6268.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61			55
1	99	95	92	88	92	89	86	83	76	74	72	65	63	62	55	54	53			48
2	91	84	78	73	84	78	73	69	68	64	60	58	55	53	49	47	45			41
3	83	74	67	61	77	69	63	58	60	55	51	52	48	45	44	41	39			35
4	77	66	58	52	71	62	55	50	54	49	44	46	42	39	39	36	34			31
5	71	59	51	45	65	55	48	43	48	43	39	42	38	34	36	33	30			27
6	65	53	45	40	60	50	43	38	44	38	34	38	34	30	33	29	27			24
7	60	48	41	35	56	45	38	33	40	34	30	35	30	27	30	27	24			21
8	56	44	36	31	52	41	35	30	37	31	27	32	28	24	28	24	22			19
9	52	40	33	28	49	38	31	27	34	28	24	30	25	22	26	22	20			18
10	49	37	30	25	46	35	29	24	31	26	22	27	23	20	24	20	18			16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26631	26631	26631
5°	26675	25336	25148
10°	26411	24030	23237
15°	26047	22487	21058
20°	25567	20734	18779
25°	25077	18934	16694
30°	24414	17182	14417
35°	23768	15415	12462
40°	23111	13678	10448
45°	22344	11888	8691
50°	21553	10159	7075
55°	20731	8433	5617
60°	19773	6744	4250
65°	18674	5141	3455
70°	17340	3730	2747
75°	15669	2845	2098
80°	13253	1926	1409
85°	9252	881	680

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22344 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	2.5
10°-20°	432.8	6.9
20°-30°	607.7	9.7
30°-40°	662.4	10.6
40°-50°	608.8	9.7
50°-60°	478.1	7.6
60°-70°	311.2	5.0
70°-80°	160.2	2.6
80°-90°	42.6	0.7
90°-100°	31.6	0.5
100°-110°	117.7	1.9
110°-120°	312.1	5.0
120°-130°	517.6	8.3
130°-140°	549.8	8.8
140°-150°	511.0	8.2
150°-160°	410.8	6.6
160°-170°	264.7	4.2
170°-180°	91.1	1.5
0°-30°	1198.2	19.1
0°-40°	1860.7	29.7
0°-60°	2947.6	47.0
0°-90°	3461.7	55.2
90°-120°	461.3	7.4
90°-150°	2039.7	32.5
90°-180°	2806.0	44.8
0°-180°	6268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1682	1675	1655	1669	1664	160
15°	1600	1583	1532	1503	1488	451
25°	1452	1404	1303	1241	1218	668
35°	1252	1174	1040	944	910	783
45°	1023	921	761	653	617	790
55°	778	659	495	404	374	695
65°	525	402	265	213	209	521
75°	280	174	122	111	110	296
85°	66	34	29	29	29	75
90°	1	8	14	17	19	6
95°	45	22	27	30	30	53
105°	211	231	42	50	53	225
115°	398	410	427	107	57	392
125°	563	572	585	590	592	502
135°	697	708	714	721	720	538
145°	808	808	819	824	821	506
155°	890	884	892	896	891	410
165°	938	934	936	941	936	265
175°	959	954	956	961	954	91
180°	957	957	957	957	957	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1682.4	1682.4	1682.4	1682.4	1682.4
2.5°	1690.0	1682.4	1665.6	1680.8	1677.8
5°	1682.4	1674.8	1655.0	1668.7	1664.1
7.5°	1668.7	1659.5	1638.2	1644.3	1636.7
10°	1650.4	1639.7	1609.3	1604.7	1595.6
12.5°	1627.6	1613.9	1572.7	1563.6	1546.9
15°	1600.1	1583.4	1531.6	1502.7	1487.5
17.5°	1568.2	1543.8	1479.9	1446.4	1422.0
20°	1531.6	1501.2	1425.1	1387.0	1353.5
22.5°	1492.1	1457.0	1368.7	1317.0	1294.1
25°	1452.5	1403.7	1303.3	1240.8	1218.0
27.5°	1405.3	1353.5	1242.4	1170.8	1135.8
30°	1355.0	1297.2	1175.4	1097.7	1056.6
32.5°	1306.3	1236.3	1111.4	1020.1	982.0
35°	1251.5	1173.8	1039.9	944.0	910.5
37.5°	1198.2	1114.5	972.9	867.8	829.8
40°	1141.9	1050.5	902.8	794.7	755.2
42.5°	1084.0	986.6	832.8	720.1	682.1
45°	1023.1	921.1	761.3	653.2	616.6
47.5°	965.3	857.2	692.7	584.6	551.1
50°	901.3	793.2	625.7	520.7	488.7
52.5°	838.9	724.7	561.8	461.3	432.4
55°	778.0	659.2	494.8	403.5	374.5
57.5°	715.6	593.8	435.4	350.2	325.8
60°	651.6	529.8	373.0	295.4	271.0
62.5°	589.2	467.4	319.7	246.6	234.5
65°	525.3	401.9	264.9	213.2	208.6
67.5°	464.4	341.0	213.2	187.3	182.7
70°	400.4	281.7	176.6	161.4	155.3
72.5°	339.5	226.9	147.7	135.5	132.5
75°	280.1	173.6	121.8	111.1	109.6
77.5°	220.8	123.3	95.9	89.8	86.8
80°	166.0	88.3	73.1	67.0	67.0
82.5°	115.7	59.4	50.2	47.2	47.2
85°	65.5	33.5	28.9	28.9	28.9
87.5°	24.4	12.2	12.2	10.7	10.7
90°	0.7	8.3	13.9	17.3	18.7
92.5°	17.3	14.5	16.6	18.0	18.7
95°	45.0	22.2	27.0	30.5	29.8
97.5°	81.0	24.2	35.3	37.4	38.1
100°	122.6	27.7	39.5	45.0	46.4
102.5°	168.3	166.9	40.9	48.5	50.6
105°	210.6	231.3	42.3	49.9	52.6
107.5°	259.7	277.1	43.6	51.3	54.0
110°	306.8	321.4	121.2	51.9	54.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	351.2	363.6	351.9	53.3	55.4
115°	398.3	410.1	427.4	106.7	56.8
117.5°	439.1	453.0	464.8	365.7	184.2
120°	484.9	495.2	507.7	516.0	422.5
122.5°	523.6	534.7	548.6	552.7	553.4
125°	563.1	572.1	585.3	590.1	592.2
127.5°	599.1	608.8	619.2	626.2	626.9
130°	633.1	644.2	651.8	659.4	658.7
132.5°	667.7	676.7	684.3	690.6	689.9
135°	696.8	707.9	714.1	721.1	719.7
137.5°	727.3	735.6	742.5	749.5	747.4
140°	757.1	762.6	770.2	776.5	773.0
142.5°	782.0	786.9	795.9	801.4	797.9
145°	808.3	807.6	819.4	824.3	820.8
147.5°	831.2	829.1	840.9	844.3	841.6
150°	853.3	848.5	859.6	863.7	860.3
152.5°	872.1	866.5	876.9	881.1	876.2
155°	890.1	883.8	892.1	896.3	890.8
157.5°	904.6	899.1	905.3	910.1	904.6
160°	917.1	912.9	917.1	921.2	916.4
162.5°	928.2	924.0	927.5	932.3	926.1
165°	937.9	933.7	935.8	940.6	935.8
167.5°	945.5	941.3	943.4	948.2	942.0
170°	951.7	947.6	948.9	953.8	947.6
172.5°	955.9	951.7	953.1	957.9	951.7
175°	959.3	954.5	955.9	960.7	953.8
177.5°	960.7	955.9	956.6	961.4	955.2
180°	957.2	957.2	957.2	957.2	957.2

(END OF REPORT)