

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: P999786

Luminaire Tested: SA2XXRDIP-B485D725UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999786
REPORT IS A COMBINATION OF REPORTS P988341 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B485D725UB27-4F0-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

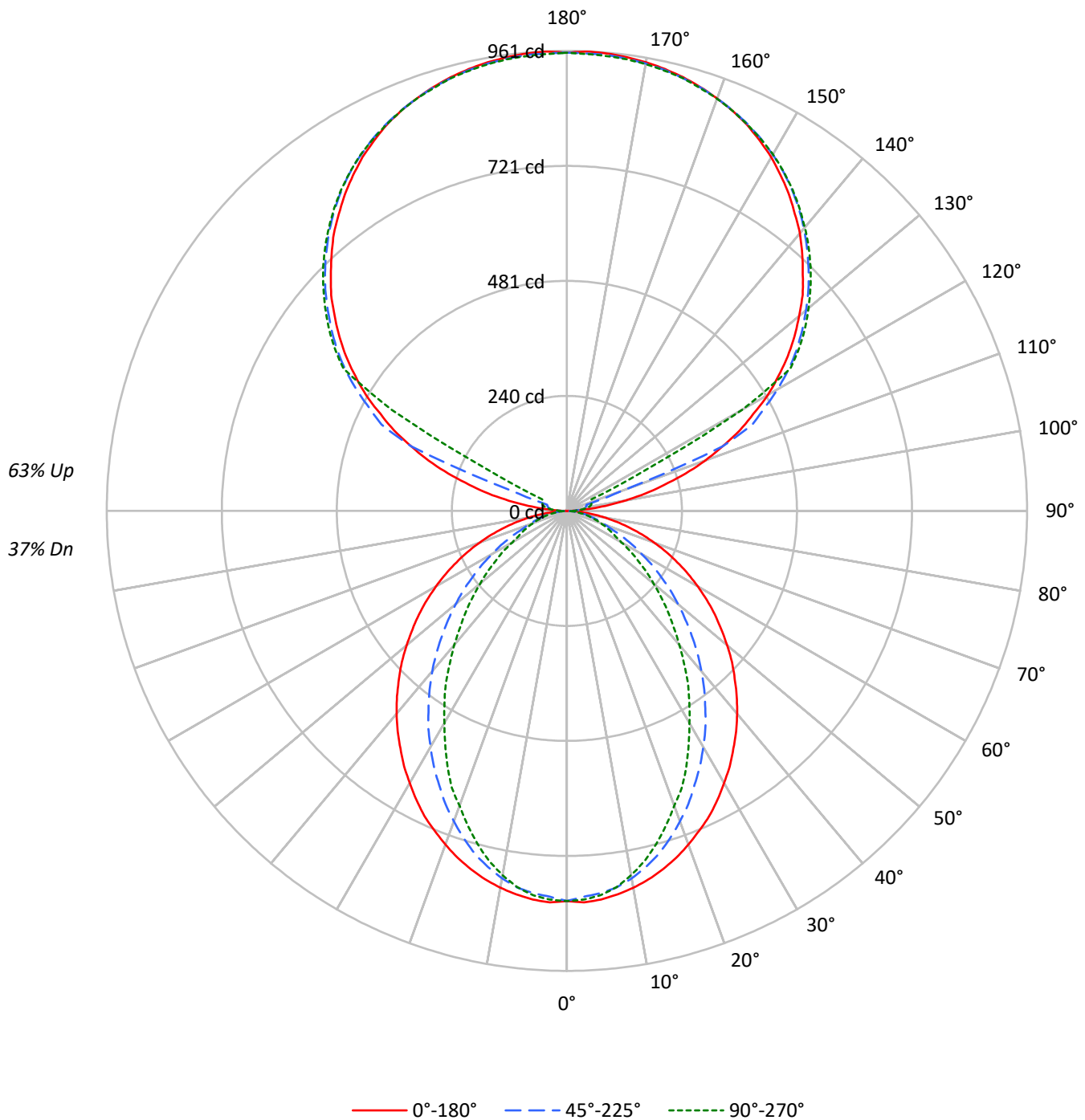
Lumens per Lamp: N/A
Luminaire Lumens: 4484.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 45.1
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45
1	95	91	88	84	86	83	80	77	67	65	63	53	52	50	40	39	38
2	87	80	74	69	79	73	68	64	59	56	53	47	45	43	36	34	33
3	80	71	64	58	72	64	58	54	53	48	45	42	39	36	32	30	28
4	73	63	55	49	66	57	51	46	47	42	39	38	34	32	29	26	25
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	24	21	19
7	57	45	38	32	52	42	35	30	35	30	26	28	24	22	22	19	17
8	53	41	34	29	48	38	31	27	32	27	23	26	22	19	20	17	16
9	49	38	30	26	45	35	28	24	29	24	21	24	20	17	19	16	14
10	46	35	28	23	42	32	26	21	27	22	19	22	18	16	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12899	12899	12899
5°	12920	12273	12182
10°	12793	11639	11256
15°	12618	10892	10200
20°	12385	10043	9096
25°	12147	9172	8087
30°	11827	8322	6983
35°	11513	7466	6036
40°	11194	6626	5061
45°	10824	5757	4210
50°	10441	4921	3427
55°	10043	4085	2721
60°	9577	3267	2059
65°	9044	2490	1673
70°	8402	1806	1330
75°	7591	1378	1016
80°	6419	933	681
85°	4478	427	329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	1.7
10°-20°	209.7	4.7
20°-30°	294.4	6.6
30°-40°	320.9	7.2
40°-50°	294.9	6.6
50°-60°	231.6	5.2
60°-70°	150.7	3.4
70°-80°	77.6	1.7
80°-90°	21.5	0.5
90°-100°	31.6	0.7
100°-110°	117.7	2.6
110°-120°	312.1	7.0
120°-130°	517.6	11.5
130°-140°	549.8	12.3
140°-150°	511.0	11.4
150°-160°	410.8	9.2
160°-170°	264.7	5.9
170°-180°	91.1	2.0
0°-30°	580.4	12.9
0°-40°	901.3	20.1
0°-60°	1427.8	31.8
0°-90°	1677.7	37.4
90°-120°	461.3	10.3
90°-150°	2039.7	45.5
90°-180°	2806.0	62.6
0°-180°	4484.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	815	811	802	808	806	77
15°	775	767	742	728	720	218
25°	704	680	631	601	590	324
35°	606	569	504	457	441	379
45°	496	446	369	316	299	383
55°	377	319	240	195	181	337
65°	254	195	128	103	101	252
75°	136	84	59	54	53	144
85°	32	16	14	14	14	36
90°	1	8	14	17	19	4
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°	814.9	814.9	814.9	814.9	814.9
2.5°	818.6	814.9	806.8	814.2	812.7
5°	814.9	811.2	801.7	808.3	806.1
7.5°	808.3	803.9	793.5	796.5	792.8
10°	799.4	794.3	779.5	777.3	772.9
12.5°	788.4	781.7	761.8	757.4	749.3
15°	775.1	767.0	741.9	727.9	720.5
17.5°	759.6	747.8	716.8	700.6	688.8
20°	741.9	727.2	690.3	671.9	655.6
22.5°	722.7	705.8	663.0	637.9	626.9
25°	703.6	680.0	631.3	601.1	590.0
27.5°	680.7	655.6	601.8	567.1	550.2
30°	656.4	628.3	569.3	531.7	511.8
32.5°	632.8	598.8	538.4	494.1	475.7
35°	606.2	568.6	503.7	457.2	441.0
37.5°	580.4	539.8	471.3	420.4	401.9
40°	553.1	508.9	437.3	385.0	365.8
42.5°	525.1	477.9	403.4	348.8	330.4
45°	495.6	446.2	368.7	316.4	298.7
47.5°	467.6	415.2	335.6	283.2	267.0
50°	436.6	384.2	303.1	252.2	236.7
52.5°	406.4	351.0	272.1	223.5	209.4
55°	376.9	319.3	239.7	195.4	181.4
57.5°	346.6	287.6	210.9	169.6	157.8
60°	315.6	256.6	180.7	143.1	131.3
62.5°	285.4	226.4	154.9	119.5	113.6
65°	254.4	194.7	128.3	103.2	101.0
67.5°	224.9	165.2	103.2	90.7	88.5
70°	194.0	136.4	85.5	78.2	75.2
72.5°	164.5	109.9	71.5	65.6	64.2
75°	135.7	84.1	59.0	53.8	53.1
77.5°	106.9	59.7	46.5	43.5	42.0
80°	80.4	42.8	35.4	32.4	32.4
82.5°	56.0	28.8	24.3	22.9	22.9
85°	31.7	16.2	14.0	14.0	14.0
87.5°	11.8	5.9	5.9	5.2	5.2
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)